



REPORT  
ON THE  
SANITARY CONDITION  
OF THE  
County Borough  
OF  
BIRKENHEAD,  
FOR THE YEAR 1912,

BY

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THE LONDON

SCHOOL OF HYGIENE

AND TROPICAL MEDICINE



**HEALTH COMMITTEE**  
OF THE  
**BIRKENHEAD TOWN COUNCIL,**  
1912-13.

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---

Day of Meeting every alternate Tuesday at 4 p.m.

\* Members of the Health Sub-Committee.

+ Members of the Hospital Sub-Committee.

§ Members of the Housing Sub-Committee.

‡ Members of the Shop Act—Sub-Committee.

|| Members of the Dispensary and Sanatorium Sub-Committee.

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W.G

OFFICIALS  
OF THE  
PUBLIC HEALTH DEPARTMENT,  
1912.

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*Medical Officer of Health.*

R. SYDNEY MARSDEN, D.Sc., M.B., MAST. SURG., D.P.H., F.I.C.

*Borough Analyst.*

J. CARTER BELL, ASSOC. ROY. SCH. MINES., F.I.C., F.C.S., &c.

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JOSEPH BENNETT.

*Junior Clerks.*

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*Inspector of Meat, Fish, and Slaughter Houses.*

\*JOHN M. CARNIE.

*District Sanitary Inspectors.*

\*JOHN LEE. \*H. T. TAYLOR. \*W. H. TILSTON.  
\*JOSEPH CROSHAW.

*Inspector of Workshops and Bakehouses.*

\*S. H. MOORE.

*Inspector under the Tuberculosis Order.*

\*MISS MARION GIBSON.

*Inspector under the Shops Act, 1912.*

GEORGE WILLS.

*Inspector of Common Lodging Houses and Houses let in Lodgings.*

JOHN JONES.

*Disinfecting Inspector.*

ISAAC TAYLOR.

*Keeper of Disinfecting House.*

H. ELLIS.

*Inspector of Midwives and Health Visitor.*

\*MISS M. E. HUGHES.

*Health Visitors.*

\*MISS E. A. RADFORD.

MISS O. OLIPHANT.

*Disinfecting Labourers.*

ROBERT NIELD.

\*JOHN JACKMAN.

TIMOTHY J. SCOTT.

Those marked thus \* have passed the examination of the Sanitary Institute  
or the Scottish Sanitary Institute.

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*To the Mayor, Aldermen, and Council of the  
County Borough of Birkenhead.*

GENTLEMEN,

I have the honour of submitting to you my Twenty-First Report to the Health Committee on the Health of Birkenhead, viz., that for the year 1912.

I am again privileged to record a satisfactory condition of the Health in the Borough.

In considering our own health returns it is interesting to note that the preliminary figures issued by the Registrar General show that during 1912 872,800 births and 486,982 deaths were registered in England and Wales, showing a natural increase of population of 385,818 compared with an annual average of 395,462 in the preceding five years.

The Birth Rate fell below any figures previously recorded—viz., to 23.8 per 1000.

The Death Rate was also the lowest—13.3 per 1000, being 1.9 lower than the average for the 10 preceding years.

The Infantile Mortality of 95 per 1000 births is also the lowest yet recorded for the Country, the average for the last 10 years being 125.

Epidemic diseases caused 36,123 deaths and violence 19,814.

The population of the United Kingdom in the middle of 1912 was estimated at 45,662,572, England and Wales having 36,539,636 inhabitants, Scotland 4,738,300, and Ireland 4,384,636.

I thought these figures might be interesting.

I have the honour to be,  
Gentlemen,

Your obedient servant,

R. SYDNEY MARSDEN,  
MEDICAL OFFICER OF HEALTH.

PUBLIC HEALTH DEPARTMENT, TOWN HALL,  
*April 23rd, 1913.*

# COUNTY BOROUGH OF BIRKENHEAD

*DURING 1912.*

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## SHORT SUMMARY.

Area in Acres ....	3,850, or a little more than 6 square miles.
Population (at Midsummer) .....	133,521
Number of Inhabited Houses at time of Census, 1911	24,343
Number of Persons per House at time of Census, 1911	5·3
Rateable Value .....	£678,968
1d. in the £ yielded for General Purposes .....	£2,610
1d. in the £ yielded for Sanitary purposes .....	£2,400
Number of Persons per Acre (Density of Population)	34·6
Birth Rate per 1,000 living .....	28·2
Death Rate do. ....	14·7
Zymotic Death Rate per 1,000 living .....	1·4
Average Death Rate last 10 years.....	16·0
Deaths of Children under 1 year of age to 1,000 Births	98
Percentage of Uncertified Deaths .....	0·3
Number of Houses in the Borough, December 31st, 1912	24,771
Houses provided with Ashbins .....	17,655
Houses provided with Ashpits.....	7,116
All the houses are provided with w.c.'s. with the exception of about 100 which have privies. These are in places where at present w.c.'s. cannot be provided.	



THE SANITARY CONDITION  
OF THE  
COUNTY BOROUGH OF BIRKENHEAD  
DURING 1912.

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*Report of the Medical Officer of Health to the  
Health Committee.*

The Health of the Borough during the year 1912, as estimated by the general mortality, was in a most satisfactory condition, the Death rate of 14·7 per 1,000 being the lowest we have ever had, and the lowest in the District with the exception of Wallasey.

The Infantile Death rate, 98 per 1000 births, is also the lowest ever recorded in the Borough, and 37 below the average (135) for the last 10 years.

The average death rate in Birkenhead during the past ten years was equal 16·0 per 1,000 persons living. During the five years 1907-1911 it was 15·4. It is obvious, therefore, that the death rate of the Borough is steadily declining, showing the town to be in a healthy and satisfactory condition.

The birth rate for the year, 28·2, is nearly the same as last year, and is satisfactory, being one of the highest rates in the country and higher than the average (24·9) for the 95 provincial towns.

The following Table showing the Birth and Death rates is interesting.

BIRKENHEAD	Year	Population	Density per acre	Death Rate per 1000	Birth Rate per 1000	Infantile Death Rate per 1000 births	Total Zymotic Death Rate per 1000	Phtisis Death Rate per 1000
	1892	102038	26·5	19·2	32·7	170	3·0	1·5
	1902	113234	29·4	17·5	32·1	151	2·3	1·7
	1912	133521	34·6	14·7	28·2	98	1·4	1·1

Density of population per acre has much to do with the health conditions of the people, and I thought it might be interesting and instructive to consider what is being done in this matter under our present building bye-laws. I have therefore measured up certain areas in the N.W. district of the town which have been built upon within the last few years, with the full sanction of the Corporation as being in accordance with the bye-laws, and therefore presumably fulfilling all the necessary conditions of health.

The areas in question are as follows, the measurements being taken from the latest Ordnance Survey, viz.:—

1. The area bounded by Park Road North, Bidston Avenue and Alderley Avenue, including the sites of Seeley, Cranbourne, Alverstone and Haldane Avenues, containing 38791 $\frac{1}{2}$  superficial yards=8 acres 71 sq. yards. Number of houses, 218.
2. The area bounded by Mallaby Street, Norman Street and Upper Brassey Street, including the sites of Elfet Street, Colwyn Street, Falkland Street, Thornton Street, Clifford Street, Kingsley Street and Portland Street, containing 38,877 $\frac{7}{9}$  sq. yards=8 acres 157 yards. Number of houses, 347.

3. The area bounded by Laird Street, Upper Brassey Street and the Schools Playground, etc., and including the sites of Methuen Street and Dundonald Street, containing 11,688 $\frac{1}{2}$  sq. yards=nearly  $2\frac{1}{2}$  acres. Number of houses, 98.

Adding these figures together we get a total area of almost  $18\frac{1}{2}$  acres, with 663 houses, equal to 35·8 houses per acre.

At the time of the last census the average number of persons per house in Birkenhead was 5·3; so if we multiply  $663 \times 5\cdot3$  we get 3514 persons on this total area, or 189 persons per acre.

During the year 35 deaths occurred in the area, giving a death rate of 9·9 per 1000, as against 14·7 for the whole Borough.

The modern view of sanitarians is that not more than from 12 to 20 houses and 100 persons should be allowed per acre.

In my opinion the above results show that the present bye-laws allow too many houses to be built on an acre of ground, and steps ought to be taken to enable us to require more yard space in the rear of houses and wider streets in front.

The problem of housing is a very difficult one, and how we are to deal with the lowest strata of humanity is not easily to be solved. There is a large number of people who are homeless, have no furniture, no belongings, and are in every sense dispossessed. A rented house for such people is impossible, and they can only be dealt with by proper lodging houses.

There are other people just on the verge of immersion, but who, with some care, might be rescued from the depths of the submerged.

The matter is one which urgently calls for treatment by the Committee and the Corporation, and I would strongly urge that something should be done on the lines of the Glasgow Family Houses and Common Lodging Houses.

At the same time I wish to make it clear that I am not advocating permanent homes for these people, but that those who are assisted by such provision should be made to understand that there was no intention of doing away with their own responsibilities in life, that they are simply being helped to something

better, and that they must endeavour to attain to such a position as opportunity arises.

**Rain Water Conductors.**—The remarks which I made on this subject last year still hold good, and the nuisance caused by the present system continues to the public detriment.

**Public Conveniences for Women.**—Since my last report was published a ladies' lavatory has been provided at Charing Cross, providing for a much felt want.

In the succeeding pages of this report will be found details of the work carried on by the Public Health Department, together with the vital and mortal statistics of the Borough during the year under consideration, as follows:—

#### DETAILED STATEMENT OF THE WORK OF THE PUBLIC HEALTH DEPARTMENT DURING 1912.

**Ordinary Sanitary Operations.**—The ordinary sanitary operations of the Department have continued to receive unremitting attention. House-to-house inspections of the cottage property in the Borough have been regularly made. Gulleys and passage drains have been periodically cleansed, public fountains, &c., have been scoured and kept in order, and the systematic removal of ashpit refuse at stated intervals has been carefully superintended.

**Summary of Nuisances, &c.**—The summary of nuisances investigated and dealt with during 1912 is as follows:—

	1912.
Number of nuisances reported ... ... ...	9059
Number of formal notices given ... ... ...	3095
Number abated after formal notice and without proceedings ... ... .. ...	9058
Number of cases in which proceedings were taken for ordinary nuisances ... ... ...	1
Number abated after proceedings... ... ...	1
House disinfecting notices... ... ...	724

Nuisances at houses let in lodgings	...	...	265
Nuisances at common lodging houses	...	...	133
Notices for cleansing of filthy houses	...	...	13

A brief statement of the other measures taken in 1912 for correcting or getting rid of whatever appeared to be prejudicial to health is subjoined.

Sanitary defects reported by the Inspectors and referred for the action of the Borough Surveyor	...	...	480
Matters reported to Water Engineer	...	...	189
Houses or parts of houses specially disinfected by formalin or other disinfectants	...	...	1267
Notice to whitewash and efficiently cleanse milk-houses, cowsheds and dairies, given and complied with	...	...	157
Offensive privies and trough closets ordered for conversion into water-closets	...	...	10
Parcels of infected bedding and clothes disinfected at the Disinfecting House	...	...	1416
Parcels of infected or discarded bedding and clothes destroyed	...	...	525
Carcasses of dogs and cats &c. removed from pools or waste land and buried	...	...	34
Deposits of putrid fish and other objectionable refuse removed	...	...	1
Total	...	...	<u>409</u>

In addition to the above, the following work has been done:—

Number of excavations made for the purpose of testing the condition of house drains	160
---	-----

Number of smoke tests applied to drains of premises reconstructed under the supervision of this Department	...	212
Number of water tests applied to drains.	...	281
Number of smoke tests applied to the drains of new buildings, in conjunction with the Borough Surveyor's Department	...	247

It will be seen from the above that the work of the Department continues to increase, this is in part due to new Acts of Parliament, to the ever-increasing population and consequent greater crowding, and also on account of the more thorough manner in which examinations are now made. The latter tends to the advantage of the public, both as regards health and comfort, and every effort is made to keep down public or private nuisances dangerous to the community.

**District Inspections.**—The following is a statement of the work done by the District Inspectors of Nuisances and the Disinfecting Inspector during 1912.

		Number of Visits and Revisits made to Insanitary Property.
District I.—Inspector Croshaw	...	5880
„ II.— „ Lee	...	5489
„ III.— „ H. T. Taylor	...	5100
„ IV.— „ W. H. Tilston	...	5928
Disinfecting Inspector Isaac Taylor	...	7359
		<hr/>
Total	...	29756
		<hr/>

**Smoke Nuisances.**—Observations were taken of the smoke emitted from the factory and other chimneys of the Borough during the year 1912. 3 notices were served for the abatement of smoke nuisances, and 4 notices were served to raise chimneys.

### Inspection of School Premises.

Working in conjunction with the Education Department, I had 35 schools specially examined by the District Inspectors and reported thereon to the Education Committee.

### Inspection of Common Lodging Houses and Houses let in Lodgings

The following is a statement of the work performed during the year 1912 by the Inspector of Common Lodging Houses and Houses let in Lodgings, viz:—

#### REGISTERED COMMON LODGING HOUSES.

Day Inspections	...	...	...	...	...	5093
Night Inspections	...	...	...	...	...	403

The total number of registered lodging houses is 20.

#### REGISTERED HOUSES LET IN LODGINGS.

Day Inspections	...	...	...	...	...	3628
Night Inspections	...	...	..	...	...	206

The total number of houses let in lodgings on the register at the end of 1912 was 693.

**Corporation Tenement Dwellings.**—413 visits were made during the year by the Inspector of Lodging Houses, &c, and 485 nuisances were reported, which have been abated.

### FACTORY AND WORKSHOP ACTS,

1901 and 1907.

In connection with the carrying out of the provisions of these Acts, the following is a statement of the work done by the Inspector during the year, viz:—

816 visits have been made to workshops.

483 visits have been made to bakehouses.

76 visits have been made to workplaces.

110 visits have been made to homeworkers' premises

32 workshops, including 1 bakehouse, have been placed on the register during the year, making a total of 425 up to the end of 1912, of which 62 are bakehouses and 45 are confectioners' shops.

24 workshops have been closed.

7 workshops have been transferred to more suitable premises.

110 nuisances in connection with workshops have been reported and abated.

18 notices have been served for the abatement of nuisance arising out of defective drainage, and 11 for inefficient ventilation.

30 notices to cleanse and limewash the workshops have been served and complied with.

197 occupiers of workshops have limewashed their premises under inspection, but without waiting for the formal notice.

1 case of overcrowding has been reported during the year.

2 workshops have been provided with w.c. accommodation, where none previously existed.

10 failures to affix abstract of the Factory and Workshops Act (s. 133).

Lists of out-workers have been carefully kept, and notices in the form prescribed by the Secretary of State, as given in my Report for 1892 (pp. 57 and 58), have been served when necessary.

**Laundries.**—253 visits were made during the year to the 53 laundries at present on the register.

**Bakehouses.**—The duties involved in carrying out the provisions of the Acts relating to the sanitary condition of bakehouses have been put under a special Inspector, and during the year 483 visits have been made to bakehouses.

There has been a very great improvement secured by this systematic inspection.

**"Shop Hours Acts, 1892 and 1895."**

In carrying out the provisions of these Acts the Inspector has paid 275 visits to different shops, and the occupiers' names and addresses have been placed upon a register specially kept for the purpose, together with the date of his visits.

**Seats for Shop Assistants Act, 1899.**

[62 and 63 Vict., ch. 21.]

60 premises have been visited under this Act, and 138 visits made during the year ending 1912.

**SHOP HOURS ACT, 1904**

**CLOSING ORDER WITH RESPECT TO HAIRDRESSERS.**

In connection with this Order, 971 visits have been made. 1 summons was issued for an infringement of this Order.

**SHOPS ACT, 1912.**

(Which repeals the Shops Regulations Acts, 1892—1911.)

The Act came into force on the 1st May, 1912, and the following work was done under its provisions:—

3396 shops were visited and 4 prosecutions were ordered for infringements.

In one case for contravening the provisions of the Hairdressers' Closing Order, 1905.	Fined 2/6 without costs.
--	-----------------------------

For failing to close shop on Weekly Half-holiday.	Dismissed with caution.
---	----------------------------

For employing an assistant after 1-30 p.m. on Weekly Half-holiday.	Fined 2/6 without costs.
---	-----------------------------

For failing to fix a notice in the prescribed form as to Assistants' Weekly Half-holiday.	Fined 5/- and costs.
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**Administration of the Factory and Workshop Acts, 1901 & 1907,**  
 IN CONNECTION WITH  
**Factories, Workshops, Laundries, Workplaces and**  
**Homework.**

**1. INSPECTION.**

INCLUDING INSPECTIONS MADE BY SANITARY INSPECTORS OR INSPECTORS OF NUISANCES.

Premises. (1)	Number of		
	Inspections. (2)	Written Notices. (3)	Prosecutions. (4)
Factories (including Factory Laundries) ..	50	—	—
Workshops (including Workshop Laundries) ..	299	55	—
Workplaces (other than Outworkers' premises included in Part 3 of this Report) ..	76	4	—
Total .. ..	1125	59	—

**2. DEFECTS FOUND.**

Particulars. (1)	Number of Defects			Number of Prosecutions. (5)
	Found [2]	Remed'd [3]	Referred to H.M. Inspect'r [4]	
Nuisances under the Public Health Acts :—				
Want of cleanliness .. .. .. .. ..	17	17	—	—
Want of ventilation .. .. .. .. ..	14	14	—	—
Overcrowding .. .. .. .. ..	1	1	—	—
Want of drainage of floors .. .. .. .. ..	1	1	—	—
Other Nuisances .. .. .. .. ..	16	16	—	—
Sanitary accommodation	insufficient .. ..	2	2	—
	unsuitable or defective .. ..	4	4	—
	not separate for sexes .. ..	2	2	—
Offences under the Factory and Workshop Act :—				
Illegal occupation of underground bakehouse (s. 101) .. .. .. .. ..	—	—	—	—
Breach of special sanitary requirements for bakehouses (ss. 97 to 100) .. .. ..	54	54	—	—
Other Offences (excluding offences relating to outwork which are included in Part 3 of this Report) .. .. .. .. ..	—	—	—	—
Total .. .. .. .. ..	111	111	—	—

\* Including those specified in sections 2, 3, 7 and 8 of the Factory and Workshop Act as remediable under the Public Health Acts.

### 3. HOME WORK.

#### OUTWORKERS' LISTS, SECTION 107.

OUTWORK IN UNWHOLE-SOME PREMISES,  
SECTION 105,  
Sections 109, 110.

OUTWORK IN INFECTED  
PREMISES,  
Sections 109, 110.

NATURE OF WORK.*	OUTWORKERS' LISTS, SECTION 107.					
	Lists received from Employers.			on served on lists.		
Sending twice in the year.		Sending once in the year.		Notices sent to Occupiers keeping or sending inspection lists.		
	Outworkers + Contractors	Outworkers, Contractors	Workmen.	Lists, Contractors	Workmen.	
1]	2]	3]	4]	5]	6]	7]
Wearing Apparel—						
(1) making, etc. ..	16	80	—	7	7	—
[2] cleaning & washing ..	—	—	—	—	—	—
Furniture & upholstery ..	—	—	—	—	—	—
Total ..	16	80	—	7	7	—

INSTRUCTIONS.—If an occupier gives out work of more than one of the classes specified in column 1, and subdivides his list in such a way as to show the number of workers in each class of work, the list should be included among those in column 2 (or 5 as the case may be) against the principal class only, but the outworkers should be assigned in columns 3 and 4 (or 6 and 7) into their respective classes. A footnote should be added to show that this has been done.

+ The figures required in columns 2, 3 and 4 are the total numbers of the lists received from those employers who comply strictly with the statutory duty of sending two lists each year. The entries in column 2 must necessarily be even numbers, as there will be two lists for each employer—in some previous returns odd numbers have been inserted. The figures in columns 3 and 4 will usually be (approximately) double of the number of individual outworkers whose names are given, since in the February and August lists of the same employer the same outworker's name will often be repeated.

#### 4. REGISTERED WORKSHOPS.

Workshops on the Register (> 131) at the end of the year.	Number.	Class.	Number
	2.	1.	2
Bakeliners ..	..	..	..
Confettioners ..	..	..	..
Laundries ..	..	..	..
Other Workshops ..	..	..	..
Total ..	62	45	53

#### 5. OTHER MATTERS.

Matters notified to H.M. Inspector of Factories:	Number.
Action taken in matters referred by H.M. Inspector as remediable under the Public Health Act, but not under the Factory and Workshop Act, (s. 5)	10
Notified by H.M. Inspector	15
Failure to file Abstract of the Factory and Workshop Act, (s. 133)	
These matters were attended to at the time.	
Indeficient Bakeliners ..	101
Other ..	None
Total number of workshops on Register ..	125
In use at the end of the year ..	

### The Midwives Act, 1902.

In connection with the carrying out of the provisions of this Act, a great deal of work was done during the year: not only in visiting the homes of midwives, but in interviewing them in connection with their work and explaining the provisions of the Act and the rules laid down for their guidance by the Central Midwives Board.

During the year 1912, 75 midwives entered their names on the local register as practising in the borough, being the same as last year, but names are constantly being added to the roll. Of the above 75, three died and five of them subsequently left the district, and their names have been removed from the register accordingly. Ten midwives gave notice of change of address, and one had her name taken off the register.

During the year I received twenty-seven complaints against midwives. All of these were carefully investigated by me and the midwives in question interviewed. The Inspector also interviewed 12 midwives on minor matters where no complaint had been made.

Notices were received from midwives of 61 still births (26 male and 35 female) having occurred; and 156 cases were notified in which medical aid had been called in.

The Inspector of midwives paid 155 visits of inspection to midwives, and I also inspected the bags and registers of a considerable number.

I received great assistance in connection with enquiries under this Act from the Female Health Visitors of the Birkenhead Society for the Prevention of Cruelty to Children, who work in conjunction with the Health Department by special arrangement, and a number of reports were made by them to me in important cases.

57 cases of unnotified births occurred. 25 of these were attended by medical practitioners, 14 by certified midwives and 18 by uncertified handy-women.

### NOTIFICATION OF BIRTHS ACT, 1907.

This Act was adopted in the Borough on January 3rd, 1912, and three women Health Visitors were appointed in connection with carrying out the work.

The following is a record of the cases visited by the women Health Visitors during 1912, viz. :—

3407 visits were paid to the homes.

1172 re-visits were made.

3134 infants were found to be breast fed.

273 infants were fed on artificial foods.

Medical attention was advised in 116 cases and 104 cases of ophthalmia were carefully watched and recovery resulted in each case.

7 cases of nuisance were reported to the Nuisance Department. 5 cases were referred to the Charity Organisation Society.

The Ladies' Committee of the Society for Prevention of Cruelty to Children with whom we work jointly in regard to the Health Visitors, have allowed extra nourishment in the case of 43 children, and milk and cereals to 91 nursing mothers.

### INFECTIOUS DISEASES (PREVENTION) ACT, 1890.

135 Library books were collected from infected houses and 2 books were destroyed.

### CLEANSING OF PERSONS ACT, 1897.

No-one applied to be cleansed under the provisions of this Act, but special baths are provided for this purpose at the disinfecting station in Corporation Road.

**Seizure and Destruction of Unwholesome Meat, Fish,  
and Vegetables.**

The Meat and Food Inspector has furnished the following particulars of meat, &c., unfit for human food, seized and destroyed during 1912.

The total weight of the meat destroyed amounted to 291·24 tons. Some of this was voluntarily surrendered by the butchers, they having called the Inspector's attention to it.

As in all recent years, a considerable proportion of the meat taken was on premises in connection with the Foreign Animals Wharf, Woodside. The total number of animals killed was—

**AT WOODSIDE LAIRAGE.**

	Oxen	Sheep	Calves	Pigs
Canadian and American ...	20008	13223	...	...
Irish ... ... ...	119816	32738	793	12729
Total ... ... ...	139824	45961	793	12729

**AT WALLASEY LANDING STAGE AND NO. 4 SHED, WALLASEY LAIRAGE.**

	Oxen	Sheep	Calves	Pigs
Canadian and American ...	...	...	...	...
Irish ... ... ...	71	1930	...	187

**AT THE BIRKENHEAD ABATTOIR, NEW CHESTER ROAD.**

Oxen, 3149; Sheep, 3624; Lambs, 3189; Calves, 471; Pigs, 4906; the total number of animals killed being 15,339.

## STATEMENT OF TOTAL SEIZURES

For the Year 1912.

Total number of—

Carcasses seized during 1912	... 855,	weighing 267,399 lbs.
Immature Calves seized during 1912	1339,	weighing 33,267 lbs.

Total...	2194,	weighing 300,666 lbs.
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Parts of Carcasses seized ...	... weight	40,236 lbs.
Offal seized	... ,	311,490 lbs.

Of the above, the number of carcases seized at—

	Beasts	Sheep	Lambs	Calves	Immature Calves	Pigs	Total	Weighing lbs.
Woodside—Foreign	4	—	—	—	—	—	4	3,410
„ Irish	326	22	7	—	1336	3	1694	213,905
Abattoirs ...	23	3	1	1	2	10	40	18,895
Wallasey Stage ...	33	188	91	—	1	112	425	61,538
Wallasey No. 4 Shed	2	12	15	—	—	2	31	2,918
	388	225	114	1	1339	127	2194	300,666

Parts of carcases seized at—

Woodside—Foreign ...	weight	400 lbs.
„ Irish ... „	„	38847 lbs.
Abattoirs ... „ „	„	589 lbs.
Wallasey Stage ... „ „	„	400 lbs.
Wallasey No. 4 Shed „ „	„	—
		40236 lbs.

Offal seized at—

Woodside—Foreign ...	weight	100 lbs.
„ Irish ... „	„	307075 lbs.
Abattoirs ... „ „	„	2900 lbs.
Wallasey Stage ... „ „	„	1415 lbs.
Wallasey No. 4 Shed „ „	„	—
		311490 lbs.

In addition to the above the following articles were seized, viz. :—	Market Hall ... Tinned Meats ...	342 lbs.
	, , ... Pigs' Heads ...	224 lbs.
Shops ... ... Meat ... ...	110 lbs.	
	Cod Fish ... ...	90 lbs.
	Shell Fish (Mussels) ...	25 lbs.
	Total weight ...	<u>791</u> lbs.

### Tuberculosis in the Animals.

The following is a Statement of the number of cases dealt with during the year 1st January to 31st December, 1912.

	WOODSIDE.		THE ABATTOIRS.				WALLASEY STAGE.		
	No.	Weighing lbs.	Cattle		Pigs		No.	Weighing lbs.	
			No.	lbs.weight	No.	lbs.weight			
<b>FOREIGN CATTLE -</b>									
No. where whole carcase was taken	4	3410	—	—	—	—	—	—	—
No. where part only was taken....	1	400	—	—	—	—	—	—	—
No. where offal only was taken ..	1	100	—	—	—	—	—	—	—
	6	3910	—	—	—	—	—	—	—
<b>IRISH CATTLE—</b>									
No. where whole carcase was taken	291	159657	12	9905	3	456	3	1935	
No. where part only was taken....	161	39531	3	545	—	—	1	400	
No. where offal only was taken ..	186	25521	7	623	—	—	1	100	
	638	224709	22	11073	3	456	5	2435	

CHESHIRE CATTLE at the Abattoir—			No.	Weighing lbs.
No. where whole carcase was taken	..	7		
No. where part only was taken ..	..	1		5240
No. where offal only was taken ..	..	1		44
				100
			9	<u>5384</u>

Total number of animals affected sufficiently for whole or part to be taken, viz. :—

Foreign ... 6	{ 683 animals.
Irish ... 668	
Cheshire ... 9	

Total weight 247,967 lbs.

Proceedings taken under the "Sale of Food and Drugs Acts,  
1875 to 1907."

The Chief Inspector (Mr. William Dawson) gives the following summary of proceedings taken under these Acts during 1912.

During the twelve months ending the 31st December, 1912, the following samples were taken and analysed, viz.:—

			Samples taken formally.	Samples taken informally.
Milk	...	...	117	...
Butter	..	...	61	...
Cheese	..	...	27	...
Coffee	...	...	10	...
Lard	...	...	16	...
Beer	...	...	10	...
Bread	...	...	6	...
Sweets	...	...	6	...
Cream	...	...	4	...
Malt Vinegar	...	...	4	...
Brandy	...	...	2	...
Compound Liquorice Powder			2	...
Cream of Tartar	...	...	2	...
Gin	...	..	2	...
Ground Rice	...	...	2	...
Irish Whisky	...	...	2	...
Paregoric	...	...	2	...
Pepper	...	...	2	...
Port Wine	...	...	2	...
Rum	...	...	2	...
Scotch Whisky	...	...	2	...
Sweet Spirit of Nitre	...	...	2	...
Tartaric Acid	...	...	2	...
Black Currant Jam	...		1	...
Cream Cheese	...	...	1	...
Damson Jam	...	...	1	...
Raspberry Jam	...	...	1	...
Strawberry Jam	...	...	1	...
			292	16

Total samples analysed during year...308

Out of the above, 17 samples of Milk, 1 of Coffee and 1 of Malt Vinegar were reported adulterated and proceedings were taken in respect to 4 samples of Milk and 1 of Malt Vinegar.

With reference to the remaining samples reported adulterated the Health Committee considered it was inadvisable to institute proceedings, and the particulars of the respective cases, and the circumstances which determined the Committee's decision are as follows, viz. :—

Coffee sample No. 36	...	5 per cent of Chicory.
Milk sample No. 50	...	3 per cent of added water.
Milk sample No. 84	...	6 per cent deficient in fat.
Milk sample No. 137	...	2 per cent of added water.
Milk sample No. 251	...	1 per cent of added water.
Milk sample No. 278	...	1 per cent of added water.

In the case of Coffee sample No. 36, reported to contain five per cent of Chicory, the Committee gave instructions that the shopkeeper should be cautioned in the mattter.

In the case of Milk sample No. 50, reported to contain 3 per cent of added water, the bottle containing the portion intended for the Public Analyst was unfortunately broken in transit through the Post Office, and consequently the sample could not be officially analysed.

The third portion of the sample retained by the Inspector was subsequently sent to the Public Analyst with the result above stated.

It may be explained that this sample was taken in course of delivery from a farmer to a shopkeeper at the same time as sample No. 51, reported to contain 5 per cent of added water, was obtained, and upon proceedings being taken against the farmer the Magistrates dismissed the case upon payment by the farmer of 16/6 costs, as shewn in the following schedule.

In the case of Milk sample No. 84 the total solids in the milk were found to be 11·9 or ·4 above the limit fixed by the Board of Agriculture, and under the circumstances it was not considered advisable to institute proceedings.

With reference to Milk samples Nos. 137, 251, and 278 reported to contain respectively—

No. 137 ... 2 per cent of added water

No. 251 ... 1 per cent of added water

No. 278 ... 1 per cent of added water

the Health Committee did not consider it advisable to institute proceedings.

Further samples of Milk were, however, taken in course of delivery to the shopkeeper from the wholesale dealer and the farmers in connection with sample No. 137, and as upon analysis the samples (Nos. 138, 139, 140 and 141) were found adulterated, proceedings were taken with the results shewn in the following schedule.

In connection with samples Nos. 288, 301, 308 and 309, it may be explained that sample No. 288 was purchased from a small shopkeeper in the Borough, and sample No. 301 from a wholesale milk dealer in course of delivery to the small shopkeeper.

Samples Nos. 308 and 309 were taken in course of delivery from the farmer supplying the wholesale milk dealer above mentioned, and when the four cases came before the Court the Magistrates ordered the small shopkeeper (No. 288) and the wholesale dealer (No. 301) to pay the costs, and fined the farmer 40/- and costs in each of the two cases Nos. 308 and 309.

In the case of a sample of Butter (No. 3) reported to contain 16·5 per cent of water, or ·5 per cent more than allowed by the "Sale of Butter Regulations, 1902," proceedings were not instituted against the shopkeeper, but full particulars respecting the sample were supplied to the Board of Agriculture and Fisheries.

With reference to the 7 samples of Butter, 4 of Cheese, 3 of Coffee and 2 of Lard taken informally, they were found pure.

During the year 1 sample of Butter was obtained, but not forwarded to the Analyst owing to proper notice having been given at the time of purchase.

The particulars respecting the samples in which proceedings were taken are as follows :—

Quarter Ending	Article.	No.	Amount of Adulteration.	Fine Inflicted.	Costs Imposed.
1912. March 31 .. ..	Milk ..	40	Deficient in fat to the extent of 10 % ..	£ s. d. 1 0 0	£ s. d. 0 17 0
	Milk ..	51	5 % of added water ..	..	0 16 6
	Malt Vinegar ..	69	This is not a sample of Malt Vinegar, but is merely a solution of Acetic Acid, coloured in imitation of Malt Vinegar .. ..	0 5 0	0 17 0
September 30 .. ..	Milk ..	138	3 % of added water ..	Dismissed upon payment of costs ..	1 0 6
	Milk ..	139	3 % of added water ..	0 10 0	0 19 0
	Milk ..	140	2 % of added water ..	0 10 0	1 2 0
	Milk ..	141	7 % of added water ..	1 0 0	0 19 0
	Milk ..	142	9 % of added water and deficient in fat to the extent of 3 % ..	1 0 0 0 10 0	1 17 6 0 8 6
	Milk ..	143	9 % of added water and deficient in fat to the extent of 10 % ..	1 0 0 1 0 0	0 19 0 0 8 6
	Milk ..	288	5 % of added water and deficient in fat to the extent of 13 % ..	Dismissed upon payment of costs. ..	0 14 6
December 31 .. ..	Milk ..	301	7 % of added water ..	Ditto ..	0 14 6
	Milk ..	308	14 % of added water ..	2 0 0	0 19 0
	Milk ..	309	10.5 % of added water	2 0 0	0 19 0

### Dairies, Cowsheds and Milkshops' Regulations.

No proceedings for infringement of the Regulations had to be taken during this year.

### Contagious Diseases (Animals) Act, 1886.

**The Milkhouses.**—The regulation of dairies, cowsheds, and milk-shops, and the supervision of milk-sellers, has had systematic attention for a number of years. Special care is taken that the ventilation, lighting, cleansing, draining, and water supply of premises used for milk-trade are thoroughly efficient. The register of milk-sellers is revised week by week. The total number of milk-shops is 196, in addition there are 19 purveyors of milk, 9, cowsheds, and 49 farmers resident outside the Borough, registered to purvey milk inside the Borough.

Twice every year notice is sent to all the milk-sellers requiring that the walls and ceilings of every room in the occupation of Registered Milk-sellers, used for storage or sale of milk, shall be lime-washed, that is to say, in March and September; but if the walls are painted, then they must be washed and thoroughly cleansed twice every year, in March and September.

### Meteorological Results.

The noteworthy features of the meteorology of the year are given in the following tabular statement, which has kindly been prepared by W. E. Plummer, Esq., M.A., F.R.A.S, Director of the Observatory, Bidston Hill, Birkenhead, who also furnishes particulars weekly of the daily observations taken under his directions, from which Table IV. in the appendix is compiled.

12	Mean Temperature			Mean Barometer Inches	Rainfall 1 ft. above ground Inches
	0° F				
January ..	..	..	..	29.897	3.675
February ..	..	..	41.6	29.616	1.002
March ..	..	..	44.7	29.615	3.609
April ..	..	..	49.1	29.173	0.202
May ..	..	..	52.8	29.978	1.595
June ..	..	..	57.0	29.785	2.348
July ..	..	..	61.5	29.937	3.566
August ..	..	..	55.4	29.705	5.862
September ..	..	..	52.5	31.183	1.166
October ..	..	..	48.2	29.539	2.923
November ..	..	..	45.0	29.973	2.155
December ..	..	..	45.1	29.734	2.017

Mean Barometer for the whole year 1912 = 29.878 inches.

Mean Barometer for the past 45 years = 29.323 inches.

Number of wet days in the year 1912 = 209 days.

Total amount of rainfall at Bidston, 1912 = 30.170 inches.

Average rainfall for last 45 years = 28.520 inches

**Barometer.**—The mean barometer of 1912 (29.878 inches) was lower than last year and 0.015 lower than the average mean for the last 45 years. Detailed particulars respecting the barometric pressure, temperature, rainfall, wind, humidity of the air and the proportion of cloud to clear sky &c., will be found in Table IV.

**Rainfall.**—The rainfall of 1912, 30.170 inches, was much higher than last year and higher than the average of the previous forty-five years.

Year.	Total Amount Rainfall in inches at Bidston	No. of wet days in the year
1901	25.192	190
1902	25.566	200
1903	34.418	224
1904	25.175	196
1905	24.011	192
1906	28.076	196
1907	26.568	209
1908	28.902	190
1909	28.447	202
1910	28.585	227
1911	25.265	170
1912	30.170	209

Average rainfall for 45 years = 28.52 inches.

The figures for the years 1867 to 1899 are given in my Report for 1904, and for 1886 to 1909 in my Report for the latter year.

For the relative mortality of different portions of the year, see under Births and Deaths.

**Water Supply.**—The water supply of the Borough is from deep wells in the old red stone, and is of excellent quality.

### PREVALENCE OF ZYMIC SICKNESS DURING 1912.

**Notification of Cases of Dangerous Infectious Diseases.**—The Infectious Disease Notification Act, 1889, requires householders and medical men in attendance to notify cases of dangerous infectious diseases to the Sanitary Authority, and gives facilities for supplementing the statement of the mortality from zymotic diseases, month by month, as they were reported. The diseases which require to be notified to the Authority as "dangerous infectious diseases" are:—

Small-pox.		Typhus.
Scarlatina.		Typhoid.
Diphtheria.	Fevers	Continued.
Membranous Croup.		Relapsing.
Erysipelas.		Puerperal Septicæmia.

Cholera.

The cases notified appear in the following return, showing that 1055 cases were notified during the year, being 343 more than the number notified last year.

The notification of Measles was discontinued after 7th August, 1907.

The following Table gives the number of Notifications of Dangerous Infectious Diseases in each month of the year.

1912.	Smallpox	Scarlatina	Diphtheria	Typhus Fever	Typhoid Fever	Puerperal Fever	Fever	Cholera	Mem. Croup	Erysipelas	Total.
January ...	..	74	19	..	2	..	..	..	..	9	104
February ...	..	43	10	..	4	1	..	1	..	13	72
March .....	..	50	13	..	1	1	..	..	..	10	75
April .....	..	44	9	..	2	1	..	..	2	5	63
May .....	..	67	15	..	2	..	..	..	2	2	88
June .....	..	102	8	..	2	2	..	..	..	7	121
July .....	..	97	7	..	1	3	..	..	..	3	111
August .....	..	102	8	..	4	1	..	..	..	2	117
September ..	..	59	13	..	..	2	..	..	3	5	82
October .....	..	68	8	..	4	4	..	..	1	7	92
November...	..	42	12	..	..	1	..	..	1	11	67
December ...	..	42	9	..	1	3	..	..	..	8	63
Total...	..	790	131	..	23	19	..	.	10	82	1055

And the next Table the number of cases of the different diseases notified in each year during the last fifteen years.

The statement is as follows :—

Year	Small-pox	Measles	Scarlatina	Diphtheria	Typhus Fever	Typhoid Fever	Fever	Mem. Group	Cholera	Erysipelas	Total
1896	..	2166	606	115	..	149	6	1	..	..	3043
1897	..	1141	630	80	..	152	17	1	..	..	2029
1898	1	529	643	190	1	243	17	3	..	..	1696
1899	..	2461	205	86	1	275	11	6	..	..	3068
1900	..	316	203	48	..	163	26	8	..	..	774
1901	..	2179	266	75	..	207	18	7	..	..	2791
1902	29	1356	407	114	1	327	20	16	..	35	2305
1903	88	420	658	101	..	79	14	12	..	78	1450
1904	40	2212	627	97	1	103	21	17	..	70	3188
1905	2	979	874	138	..	63	8	15	..	64	2143
1906	2	920	869	178	..	118	11	21	..	95	2214
1907	1	2287	288	212	..	70	7	15	..	73	2953
1908	5	..	454	140	1	62	10	11	..	94	777
1909	1	..	644	132	1	46	13	17	..	61	915
1910	7	..	291	130	..	30	5	10	..	89	562
1911	1	..	415	170	..	36	9	8	..	73	712
1912	..	..	790	131	..	23	19	10	..	82	1055

The figures for the years 1882-1905 will be found at page 25 in my report for 1905.

There were 2 cases of cerebro-spinal fever notified.

### Small-pox.

No cases of Small-pox were notified during the year.

### VITAL AND MORTAL STATISTICS FOR THE YEAR.

**Area**—The Borough has an area of 3850 acres, or a little more than six square miles.

**Population**—The Census was taken in England and Wales on April 2nd, 1911, and the result as given in the Preliminary Report on the same showed the number of persons in Birkenhead to be 130,832, being 19,917 in excess of the number enumerated in the Census taken on April 1st, 1901. The complete Census Report shows the population to be 130,794.

For the purposes of this Annual Report an estimate is required of the number of persons living at Midsummer, 1912, and I have estimated that on the 30th June of that year the population was 133,521, and on this estimate have based the following statistics.

At the time of the 1901 Census the number of inhabited houses was 19,744, giving an average number of persons per house of 5·6; the number of houses in the Borough at the time of the 1911 Census was 24,343 giving an average number of persons per house of 5·3.

I am indebted to the Chief Constable for the following Return of uninhabited property in the Borough of Birkenhead for the half year ending 31st December, 1912:—

District	Half-year ended 31st Dec., 1912.					Half-year ended 30th June, 1912.				
	Private Houses	Shops	Cot-tages.	Dock Cot-tages	Total	Private Houses	Shops	Cot-tages	Dock Cot-tages	Total
Birkenhead ..	74	111	104	..	289	70	126	235	..	431
Claughton and Oxtonge ..	68	12	27	73	180	86	12	56	87	241
Tranmere and Bebington..	113	23	33	..	169	181	40	64	..	285
Totals ....	255	146	164	73	638	337	178	355	87	957

Total uninhabited and unoccupied property,

31st December, 1911.....1027, decrease of 389

The approximate estimate of houses of all

descriptions within the Borough is.....26223

The approximate estimate of schoolrooms,

warehouses, etc., is .....1517

I am indebted to the Borough Surveyor for the following information relating to the

Number of New Houses erected in the Borough.

April 1st, 1911, to December 31st, 1911 ... 202

January 1st to December 31st, 1912 ... ... 273

The number of houses demolished since taking of Census in 1911 was 47, namely, 3 in 1911 and 44 in 1912, a net gain of 428.

I am again able to repeat that the Health returns and the Birth and Death rates for the Borough are in every way satisfactory, and it will be a matter of gratification to the Health Committee to find that notwithstanding the steady growth in the population which is taking place, as shown by the last Census, and the consequent considerable increase of density, or in other words, number of persons per acre, yet their efforts to maintain a high state of sanitation in the Borough have borne fruit in a marked degree, and in a continued improvement in the public health.

As I have repeatedly pointed out the increase of the density of population in the absence of the counteracting influence of sanitary work would probably have greatly increased the mortality, and the improvement indicated could not possibly have taken place.

The following table gives the estimated Midsummer Populations of the Wards 1911 to 1920.

WARDS	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920
Argyle ..	15154	15405	15661	15921	16186	16451	16724	17007	17291	17577
Grange ..	26387	26825	27271	27724	28185	28654	29130	29614	30106	30606
Cleveland ..	23812	24207	24609	25033	25449	25872	26302	26738	27183	27634
Claughton ..	8047	8179	8315	8445	8586	8728	8873	9020	9170	9329
Oxton ..	4801	4887	4968	5050	5134	5221	5308	5396	5484	5575
Clifton ..	24012	24411	24817	25229	25619	26076	26509	26948	27397	27852
Egerton ..	17264	17550	17841	18137	18439	18746	19058	19374	19696	20022
Mersey ..	8288	8425	8566	8708	8852	9000	9149	9301	9454	9611
Bebington ..	3573	3632	3692	3749	3811	3874	3940	4005	4072	4139
Whole Borough ..	131338	133521	135740	137996	140291	142622	144993	147403	149853	152345

**Births and Deaths in Birkenhead.**—During the year 1912 the returns of the local registrars recorded 3797 births and 1964 deaths in the Borough of Birkenhead. The natural increase in the population in 1912 was therefore 1833. Of the births 1924 were males and 1873 were females; of the deaths 1023 were males and 941 were females.

Further particulars as to the births and deaths in the Borough registered in each quarter of the year, and in each township are given in the subjoined table. Those occurring in Union Workhouse are entered separately. Twenty-three births have been subsequently transferred by the Registrar General to other districts. These have not been deducted in the following table, but 4 births sent to us by the Registrar General have been included. This table is made up week by week.

BIRTHS	1st Qr.		2nd Qr.		3rd Qr.		4th Qr.		1912		Total
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Birkenhead .....	267	265	278	265	261	270	284	260	1090	1060	2150
Claughton .....	29	28	28	24	19	17	21	24	91	93	184
Tranmere .....	154	161	172	176	157	163	178	158	661	658	1319
Oxton .....	5	5	8	10	11	3	3	2	27	20	47
Bebington .....	11	7	6	3	6	5	6	3	29	18	47
Union Hospital .....	7	6	7	3	4	4	8	11	26	24	50
 Birkenhead Borough ..	464	472	499	481	458	462	503	458	1924	1873	3797

DEATHS.	1st Qr.		2nd Qr.		3rd Qr.		4th Qr.		1912		Total
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Birkenhead .....	130	133	119	105	110	85	166	135	525	461	986
Claughton .....	13	13	10	15	7	8	12	8	42	44	86
Tranmere .....	85	72	50	55	61	58	58	66	254	251	505
Oxton .....	2	8	2	4	2	1	3	6	9	19	28
Bebington .....	3	5	2	2	8	4	3	5	16	16	32
Union Hospital .....	42	42	47	43	36	25	52	40	177	150	327
 Birkenhead Borough	275	273	230	227	224	181	294	260	1023	941	1964

The next table shews the revised estimated population of Birkenhead, the density of population and the number of births, deaths and zymotic deaths, and also the birth and death rates deducible from these figures for the years 1900 to 1912. These figures for the years 1878 to 1899 were given in my reports for the years 1898 and 1899. This table has been revised since the figures of the 1911 census have been published.

Year	Revised Estimated Population at Midsummer	Persons per acre.	BIRTHS.		DEATHS.		ZYMOTIC DEATHS.	
			Number of Births	Birth rate per 1000 per annum	Number of Deaths	Death rate per 1000 per annum	Number of Deaths	Death rate per 1000 per annum
1900	110,042	28·5	3428	31·1	1965	17·8	209	1·8
1901	111,377	28·9	3230	29·0	2061	18·5	353	3·1
1902	113,231	29·4	3646	32·1	1989	17·5	270	2·3
1903	115,117	29·9	3516	30·5	1937	16·8	260	2·2
1904	117,034	30·3	3805	32·5	2282	19·4	465	3·9
1905	118,982	30·9	3707	31·1	1833	15·4	239	2·0
1906	120,964	31·4	3733	30·8	2078	17·1	371	3·0
1907	122,978	31·9	3727	30·3	1829	14·8	253	2·0
1908	125,026	32·4	3775	30·1	1929	15·4	267	2·1
1909	127,108	33·0	3737	29·4	1930	15·1	180	1·6
1910	129,227	33·5	3730	28·8	1993	15·4	251	1·9
1911	131,377	34·1	3732	28·4	2107	16·0	304	2·3
1912	133,521	34·6	3774	28·2	1964	14·7	197	1·4



**Infantile Mortality during 10 years,  
1903 to 1912.**

Year.	No. of Births.	Total Deaths of Infants under 1 year.	Deaths from Diarrhoea under 1 year.	Total Deaths of Infants per 1000 Births.	Deaths of Infants from Diarrhoea per 1000 Births.
1903	3516	548	104	155	29·5
1904	3805	688	136	180	35·7
1905	3707	481	88	129	23·7
1906	3733	565	152	151	40·7
1907	3727	410	30	110	8·0
1908	3775	516	67	136	17·7
1909	3737	458	33	122	8·8
1910	3730	507	56	135	15·0
*1911	3732	509	134	136	35·9
*1912	3774	371	20	98	25·2

\* This is the revised rate after the Registrar General has transferred births from other towns. It cannot be compared with other towns unless we had all their revised rates.

**The proportion of Deaths of Infants under One year to the Births registered.**—The proportion in Birkenhead Borough in 1912 was equal to 98 per 1000, and compares very favourably with that of other towns. It varied greatly in the different towns in the N.W. District—from 145 in Burnley, 125 in Wigan, 118 in Blackburn, 123 in Preston, 107 in Stockport, 98 in Bolton, 117 in Oldham, 124 in St. Helens, 125 in Liverpool, 121 in Manchester, 108 in Bootle, to 98 in Birkenhead.

**Tabular Statements.**—In the appendix to this Report are tabular statements of the year's mortality within the Borough, classified according to the diseases, ages and localities, a weekly register of deaths and of meteorological results, together with a return of the deaths in the Birkenhead Union Hospital and Workhouse, etc.

Table I. shows the deaths registered in the whole Borough during 1912, arranged with reference to the age at which death occurred in each case. They are disposed in four sub-tables—the deaths in the townships of Birkenhead and Claughton in the first, deaths in Tranmere (exclusive of the Union premises) and Oxton in the second, the deaths in the incorporated portion of Higher Bebington in the third, and the deaths in the Union Hospital and Workhouse in the fourth. The deaths of infants are entered up in three columns—those under one year, those of one year and under two years, and those turned two years and under five. Then follow the deaths of children and young persons, those turned five years and under twenty; and of adults those turned twenty and under forty, and those turned forty and under sixty. In the last two columns are the deaths of old people, those turned sixty and under eighty, and those of eighty and upwards. Reference to this table will show that, of the gross local mortality for 1912, the deaths of infants under one year of age accounted for 371, those over one year but under five years of age 267, children and young persons 133, adults 622, old people sixty years of age and upwards 571.

The relative proportion of deaths in 1912 among the infants, children and young persons, adults and old people, to the whole number of deaths, in certain sub-divisions of the borough, in the premises controlled by the Guardians of the Poor, and in the entire incorporated area, is readily shown in tabular form, thus:—

Percentage of Deaths at certain ages to Total Deaths.	Under 1 Year	Age between													85 years and up wards.	
		1-2	2-3	3-4	4-5	5-10	10-15	15-20	20-25	25-35	35-45	45-55	55-65	65-75	75-85	
Birkenhead and Claughton	12.57	6.31	1.93	1.37	0.50	2.64	0.96	0.50	0.71	2.44	3.92	5.54	4.53	6.77	3.20	0.61
Tranmere & Oxton	5.24	1.57	0.66	0.35	0.30	0.66	0.45	0.55	0.30	2.03	1.57	2.59	3.66	3.36	2.69	1.06
Bebington ....	0.20	..	..	..	..	0.05	0.05	..	0.15	0.20	0.15	0.19	0.20	0.30	0.15	0.05
Union Hospital and Workhouse	0.86	0.35	0.10	0.10	..	0.20	0.20	0.45	0.56	1.52	1.83	2.49	2.54	3.56	1.37	0.45
Burkenhead Borough	18.88	8.24	2.69	1.82	0.81	3.55	1.68	1.52	1.73	6.21	7.48	10.74	10.94	14.00	7.43	2.18

In this respect the local mortality compares favourably with the mortality in most great cities and boroughs. The percentages taken out for Bebington have little significance, the number of deaths being so small.

The Registrar General states that the factor for correcting the general death rate for Birkenhead for 1912 is 1.0324.

Table II. is the weekly register of deaths in the Borough of Birkenhead for 1912. The deaths are entered into three sub-tables, representing Birkenhead; Claughton, Tranmere, Oxton and Bebington, and the Union Hospital and Workhouse. Table III. is a summary of the weekly register of deaths. Table IV. is a Weekly Condensed Register of Meteorological Results. Table V. is a street register of deaths.

**The Classification of Death Causes.**—The causes of death, as they appear in Tables I. and II. in the appendix, are systematically classified according to the principles laid down by the late Dr. W. Farr, the nosology being that adopted by the Registrar-General until within the last few years, which experience has shown to be well suited for statistical purposes. The death causes are arranged under classes and orders, the latter corresponding to the families of Natural History. Genera, or what in diseases would be varieties, are not distinguished. All death

causes are thus conveniently classified under 140 heads, some of which however, include diseases very distinct from one another.

At the beginning of Table I. are the totals of deaths from all causes, and on the next line the totals of deaths from specified causes. The deaths which it is necessary to refer to unspecified causes are not only those ascribed in legal phraseology, to "visitation of God" or "natural causes," but those which, with almost equal vagueness, are classified as due to "tumour," "coma," etc. The deaths from specified causes are then divided into five classes. Class I. (the zymotic) embraces all diseases, either epidemic, endemic or contagious, which are induced by some specific body, or by want of, or by the bad quality of food. The diseases coming under Class II. (constitutional or cachetic) appear to be due to a bad habit of body, and possibly may sometimes be hereditary. Class III. takes in diseases the effects of which are manifest in disturbing or obliterating the function of particular organs or systems. Class IV. includes the conditions tending to produce death which are the incidental results of the formative, reproductive and nutritive processes. Class V groups together all deaths which are the evident and direct result of physical or chemical forces.

**Deaths from Zymotic Diseases.** The deaths from zymotic diseases include 91 by what have been termed the chief zymotics (certain diseases belonging to the miasmatic order), viz., measles 52, scarlatina 10, diphtheria 17, membranous croup 5, fevers 5, and puerperal septicæmia 2. The remaining 106 were entered to what have been called minor zymotics (diseases less prevalent, less fatal, or less obviously zymotic in character), viz., whooping cough 49, erysipelas 5, influenza 11, diarrhœa 33, syphilis 3, cerebro-spinal meningitis 2, and other zymotic diseases 3.

#### Relative Fatality of Chief Zymotic Diseases.

The following table shows at a glance the relative fatality of the chief zymotic diseases for the year on the corrected estimate of population.

Y. & D.	Deaths from Zymotic Diseases.								Death rate per 1000 living.							
	Smallpox	Measles	Scarlatina	Diphtheria	Whooping Cough	Typhus Fever	Typhoid Fever	Diarrhoea	Smallpox	Measles	Scarlatina	Diphtheria	Whooping Cough	Typhus Fever	Typhoid Fever	Diarrhoea
1903	6	9	21	9	39	1	15	149	0·05	0·07	0·18	0·07	0·33	0·13	1·11	
1904	1	98	20	20	83	1	13	187	0·008	0·83	0·17	0·17	0·70	0·008	0·11	1·58
1905	..	32	28	22	1	..	6	115	..	0·27	0·23	0·18	0·008	..	0·05	0·96
1906	..	8	31	24	5	..	17	200	..	0·06	0·25	0·19	0·47	..	0·14	1·65
1907	..	129	10	21	16	..	11	42	..	1·04	0·08	0·17	0·13	..	0·08	0·34
1908	1	44	6	8	60	..	9	94	0·007	0·35	0·04	0·06	0·47	..	0·07	0·75
1909	..	41	17	14	15	..	5	42	..	0·32	0·13	0·11	0·11	..	0·03	0·33
1910	..	34	5	19	61	..	10	78	..	0·26	0·03	0·14	0·49	..	0·07	0·60
1911	..	23	5	21	31	..	8	194	..	0·17	0·03	0·15	0·23	..	0·06	1·47
1912	..	52	10	17	49	..	5	33	..	0·38	0·07	0·12	0·36	..	0·03	0·24

Vaccination.—Mr. John Carter, Clerk to the Board of Guardians of the Birkenhead Poor Law Union, has kindly supplied me with the following *latest completed* information relative to vaccination in the District, viz.:—

From 1st January, 1911, to 31st December, 1911.

No. of Births	...	...	...	...	...	...	...	3772
Successfully Vaccinated	...	...	...	...	...	...	...	2940
Insusceptible	...	...	...	...	...	...	...	28
Had Smallpox	...	...	...	...	...	...	...	None
Number in respect of whom Statutory Declarations of conscientious objection have been received	..	..	..	..	..	..	..	290
Died Unvaccinated	...	...	...	...	...	...	...	350
Postponed by Medical Certificate	...	...	...	...	...	...	...	34
Removed to Districts the Vaccination Officers of which were duly notified	...	...	...	...	...	...	...	30
Removed to places unknown or which cannot be reached	..	..	..	..	..	..	..	73
In Abeyance, up to 8th February, 1913	...	...	..	..	..	..	..	27

Taking 350 who died, and 103 who removed to other districts, from 3772, it leaves 3319 children who could possibly be vaccinated. Of these 2968 were vaccinated (28 being Insusceptible), equal to 89·42 per cent, whilst 61 were in abeyance or postponed by Medical Certificate.

It is gratifying to find that only 290 (8·7 per cent) were unvaccinated owing to objections on the part of the parents, a fact on which Birkenhead is to be congratulated.

### Tuberculosis Order, 1911.

Miss M. Gibson was appointed on 3rd April, 1912, as Woman Inspector under this order, and the following is a statement of the work done by her during the year, viz.:—

Total No. of cases notified during 1912—

## No. of defects notified by the Inspector to the Medical

Officer of Health	...	...	...	...	...	10
-------------------	-----	-----	-----	-----	-----	----

Enquiries were made into the home conditions of 317 cases, with the following results :—

Houses clean, ventilation good, generally satisfactory	...	...	...	...	174
Houses fairly satisfactory	...	...	...	...	111
Houses dirty, no precautions taken	...	...	...	...	32
Cases where some improvement was made	...	...	...	...	26
Cases of poverty, with very indifferent homes	...	...	...	...	83
In receipt of parish relief	...	...	...	...	11
Families living in sub-let houses	...	...	...	...	25

## Alleged causes of the starting of the disease—

With previous family history of tuberculosis	...	...	...	...	115
Direct contact with infected case	...	...	...	...	17
Following neglected colds	...	...	...	...	57
,,    previous attack of pneumonia	...	...	...	...	24
,,    ,,    pleurisy	...	...	...	...	7
,,    ,,    typhoid	...	...	...	...	3
,,    ,,    measles	...	...	...	...	4
Intemperance	...	...	...	...	8
Overwork	...	...	...	...	8
Through nature of employment (2 stone quarry men, 1 dry soap works)	...	...	...	...	3
Could not give cause	...	...	...	...	71

No. of patients lived all their lives in Birkenhead	...	...	...	...	131
,,    between 30 and 40 years in Birkenhead	...	...	...	...	5
,,    ,,    20 and 30	...	...	...	...	9
,,    ,,    10 and 20	...	...	...	...	6
,,    ,,    5 and 10	...	...	...	...	16
,,    ,,    3 and 5	...	...	...	...	12
,,    under 3 years in Birkenhead...	...	...	...	...	20

This table is not complete as the information could not be got in every case.

## STATISTICS OF ROOM ACCOMMODATION.

Patients sleeping out of doors	...	...	...	...	1
,,       in separate room	...	...	...	...	121
In separate bed with 1 other person in same room	...	...	...	...	5
,,       2 other persons	,,	...	...	...	8
,,       3	,,	,,	...	...	7
,,       4	,,	,,	...	...	2
,,       5	,,	,,	...	...	3
With second person in same bed	...	...	...	...	101
,,       ,,       and 1 other person in same room	...	...	...	11	
,,       ,,       2	,,	,,	,,	,,	6
,,       ,,       3	,,	,,	,,	,,	5
With two persons in same bed	...	...	...	...	32
,,       ,,       and 1 other person in same room	...	...	...	2	
,,       ,,       2 other persons	,,	,,	,,	1	
,,       ,,       3	,,	,,	,,	1	
With three persons in same bed	...	...	...	...	2
,,       ,,       and 2 other persons in same room	...	...	...	2	
With four persons in same bed	...	...	...	..	3
With five persons in same bed	...	...	...	...	4

In many of these cases the overcrowding was dealt with, and in some cases the patient was sent into Hospital.

No. in Family	No. Occupying									
	1 room	2 rooms	3 rooms	4 rooms	5 rooms	6 rooms	7 rooms	8 rooms	9 rooms	10 rooms
1	3	...	...	...	...	...	...	...	...	...
2	1	10	5	2	4	1	...	...	...	1
3	6	3	10	10	13	2	1	1	...	...
4	...	5	4	9	15	6	1	...	1	...
5	1	...	14	15	22	3	2	...	...	...
6	...	4	12	12	18	2	...	2	1	...
7	...	1	4	14	13	3	...	...	...	...
8	...	...	1	5	9	2	2	1	...	...
9	...	...	2	10	7	...	...	...	...	...
10	...	...	...	2	4	...	1	...	1	...
11	...	...	1	...	2	3	...	2	...	...
12	...	...	...	...	...	1	...	...	1	1
13	...	...	...	...	...	...	...	1	...	...

Patient living in shed in back garden     ...     ...     ...     1

## TRADES, &amp;c.

			Working	Not Working	Insured	Dead
Apprenticed Boilermaker	...	...	...	1	1	...
,, Electrician	...	...	...	1	1	...
,, Plater	...	...	...	2	1	...
Baker	...	..	...	1	...	1
Barman	...	...	...	1	...	1
Blacksmith	...	...	...	1	...	1
Blacksmith's striker	...	...	2	...	2	...
Bookkeeper	...	...	...	1	...	...
Boilermaker	..	...	...	1	1	1
Butcher	...	...	...	1	1	1
Carriage cleaner	...	...	...	1	...	...
,, body maker	...	..	...	1	...	...
Carpenter (ship's)	...	...	...	1	1	...
Carter	...	...	...	1	...	1
Caulker	...	...	...	1	1	...
Chandler	...	...	...	1	...	...
Charwoman	...	...	...	1	2	1
Checker (docks)	...	...	...	1	...	...
Clerk	...	...	...	3	10	6
Confectioner	...	...	...	1	...	1
Cooper	...	...	..	...	1	...
Coppersmith	...	...	...	1	1	...
Dancer (Music Hall)	...	...	...	2	...	...
Dock labourer	...	...	...	3	4	4
Domestic servants	...	...	...	3	6	6
Draper	...	...	...	1	1	...
Draper's assistant	...	...	...	2	...	...
Dressmaker	...	...	...	2	...	1
Engine driver	...	...	...	1	...	1
Errand boys—butcher's	...	...	2	...	2	...
grocer's	...	...	1	...	1	...
Fitter	...	...	..	1	...	1
Foreman—railways	...	...	...	1	1	...
show	...	...	...	1	..	1

			Working	Not Working	Insured	Dead
French polisher	...	...	...	1	...	1
Gas fitter	...	...	...	...	...	1
Grocer's assistant	...	...	...	1	...	1
Hairdresser	...	...	...	...	...	1
Insurance agent	...	...	...	2	...	1
Joiner	...	...	...	...	...	1
Labourers—general	...	...	7	11	9	1
timber yard	...	...	1	...	1	...
fitter's.	...	...	...	1	...	...
plater's	...	...	...	2	2	...
soap works	...	...	1	3	2	...
lairages	...	...	...	1	...	...
fat refinery	...	...	...	1	...	...
oil	"	...	...	1	...	...
Laundress	...	...	...	1	1	1
Machinist	...	...	...	1	...	1
Marine engineer	...	...	...	...	1	1
,, fireman	...	...	...	2	1	...
Milk boy	...	...	...	1	...	1
Office boy	...	...	...	1	...	1
Pattern maker	...	...	...	1	...	1
Pensioner, G.P.O.	...	...	...	1	...	...
Policeman	...	...	...	1	...	...
Postman	...	...	...	1	...	...
Provision dealer	...	...	...	2	...	...
Printing machine feeder	..	...	...	1	1	...
Plater	...	...	...	...	1	1
Platelayer	...	...	...	..	1	1
Plumber	...	...	...	...	...	1
Salesman—tea	...	...	...	...	1	1
School teacher	...	...	...	...	1	...
Scaler	...	...	...	...	1	...
Shopkeeper	...	...	...	...	1	1
Steward	...	...	...	1	...	1
Stonemason	...	...	...	...	...	2
Soap packer	...	...	...	1	1	1
Ticket collector	...	...	...	...	1	1
Typist	...	...	...	...	1	...
Upholsterer	...	...	...	...	1	...
					47	85
					69	20

**BIRKENHEAD.—Tuberculosis of the Lung (including Phthisis) and other forms of Tuberculosis.**

Year.	Population at Midsummer	Number of Deaths.						Other Forms of Tuberculosis					
		Total.		Tuberculosis of the Lung (including Phthisis)				Females (all ages)				Rate per 1000	
		Deaths	Death Rate	Males (all ages)	Rate per 1000	Females (all ages)	Rate per 1000	Males (all ages)	Rate per 1000	Females (all ages)	Rate per 1000	Children (under 5)	Rate per 1000
1903	116117	155	1.34	84	0.72	71	0.61	6	0.05	4	0.03	7	0.06
1904	117034	174	1.48	93	0.79	81	0.69	6	0.05	5	0.04	10	0.08
1905	115982	178	1.49	100	0.84	78	0.65	16	0.13	2	0.01	16	0.13
1906	120964	162	1.33	99	0.81	63	0.52	26	0.21	19	0.15	25	0.20
1907	122978	121	0.98	66	0.53	55	0.44	36	0.29	28	0.21	37	0.30
1908	125026	151	1.20	89	0.71	62	0.49	37	0.29	28	0.22	40	0.31
1909	127108	137	1.07	81	0.63	56	0.44	41	0.32	21	0.16	49	0.38
1910	129227	152	1.17	98	0.75	54	0.41	41	0.31	31	0.23	49	0.37
1911	131377	160	1.21	93	0.74	62	0.47	31	0.23	20	0.15	36	0.27
1912	133521	150	1.12	80	0.59	70	0.52	34	0.25	23	0.17	35	0.26
Totals	1241334	1540	1.23	888	0.71	652	0.52	274	0.21	179	0.13	304	0.23

The average Phthisis Death Rate for the last 10 years is 1.23 per 1000, equal to 154 deaths per year.

## NATIONAL INSURANCE ACT, 1911.

(Which came into operation on the 15th July, 1912.)

In connection with the carrying out of the provisions of this Act, a scheme for the establishment of a Tuberculosis Dispensary was submitted to the Health Committee on the 27th August, 1912, and approved of by them.

It passed the Council on September 4th, and was sanctioned by the Local Government Board on February 8th, 1913.

Dr. Cyril Banks was appointed Tuberculosis Officer, and Assistant Medical Officer of Health on October 25th, but did not take up his duties until 1st January, 1913.

**Inquests**—The number of inquests held during 1912 was 162, thus 8 per cent. of the sum of the deaths in the Borough formed the subject of official enquiries. Out of the 162 inquests held, 3 were upon the bodies of infants whose deaths were due to being overlain.

**Deaths not Certified.**—Not all the death causes which are classifiable represent diseases or symptoms observed and certified by medical men in attendance during the last illness, or verdicts following official investigation. A significant proportion of the death causes are entered in the register on the doubtful testimony of deceased persons' relatives or friends, or fellow lodgers. The registrars have, therefore, been required to mark in the returns furnished, every death not certified by a registered practitioner, or made the subject of a coroner's inquest. In 1912, out of the 1,964 deaths registered, 7 were marked "not certified," that is 0·3 per cent. The causes of the 7 deaths were entered in accordance with the statements of persons giving information to the registrars as follows:—

Heart Disease	...	...	...	...	...	...	1
Old Age	...	...	...	...	...	...	1
Cancer	...	...	...	...	...	...	1
Premature Birth	...	...	...	...	...	...	1
Hæmorrhage	...	...	...	...	...	...	1
Measles	...	...	...	...	...	...	1
Epilepsy	...	...	...	...	...	...	1

though how such conclusions were arrived at does not appear. In my opinion such deaths ought not to be registered without a Coroner's certificate.

The proportion of uncertified deaths to the sum of the deaths was as already stated, 0·3 per cent. as compared with 0·6 per cent. in 1911.

**Deaths classified according to Localities.**—Tables I., II., III., and IV., in the appendix, having been fully discussed, are followed by Table V., in which the deaths registered during 1912 are classified according to the localities in which they occurred. Opposite each street or place is the number of deaths from all causes and from zymotic diseases, registered as occurring in that street or place during the year. As it was felt that particulars of the number of deaths from all causes, from zymotic diseases and of infants in each ward, would prove interesting, and as the Street Register does not afford this information, the Table here subjoined has been drawn up.

1912	Estimated Population at Midsummer, 1912.	Deaths from All Causes		Deaths from Zymotic Diseases		Death rate per annum.	Infantile Death Rates per 1000 Living	No. of Deaths under 1 year
		M.	F.	M.	F.			
Cleveland Ward ..	24207	194	154	29	20	11·3	3·6	88
Claughton ..	8179	42	44	7	3	10·5	1·5	13
Grange ..	26825	193	205	18	23	11·8	3·4	93
Argyle ..	15405	138	102	23	17	15·5	3·4	53
Oxton ..	4887	9	19	..	1	5·7	0·2	1
Egerton ..	17550	80	84	4	7	9·3	1·4	26
Clifton ..	24411	123	129	11	8	10·3	2·2	51
Mersey ..	8425	51	38	2	10	10·5	2·6	22
Bebington ..	3632	16	16	1	..	8·8	1·1	4
Birkenhead Borough including deaths in Union premises ..	133521	1023	941	100	97	14·7	2·7	371

**Illegitimacy.**—Statistics relating to illegitimacy are important, not merely on account of the bearing which such a subject has upon the social life of the community, but also with a view ultimately of showing to some extent the influence which illegitimacy exerts upon the "chances of life" of infants, as it is well known that the death-rate of illegitimate children is considerably greater than that of those born in wedlock. I have

thought it desirable, therefore, to continue these statistics in this report, as the subject is one of some interest.

The following table gives the total number of legitimate and illegitimate births, with the rates per 1000 of births and per 1000 living, and statistics relative to the deaths of such children under one year of age.

### Illegitimate Births and Deaths, 1912.

Registrar's Sub-District	Estimated Population 1912.	BIRTHS		ILLEGITIMATE BIRTHS		Total deaths of children under one year of age	Deaths of Illegitimate children under one year of age	Percentage of deaths of Illegitimates to total deaths under one year of age
		Legitimate	Illegitimate	to 1000 living	to 1000 births			
Birkenhead ..	66437	2079	67	1·0	32·2	234	8	3·4
Tranmere, Oxton, Claughton, and Bebington and Workhouse ..	67084	1575	72	1·7	45·7	137	15	10·9
Total .. ..	133521	*3654	139	1·0	38·0	371	23	6·1

\*23 births have since been transferred to other places. Hence the difference in total as given on unrevised number.

### HOUSING OF THE WORKING CLASSES ACTS, 1890 to 1909.

During the twelve months ending 31st December, 1912, a large amount of work was carried out by the Department under the provisions of the Housing of the Working Classes Acts, 1890 to 1909, and the Regulations made by the Local Government Board dated 2nd September, 1910, the particulars of which are as follows, viz. :—

The number of dwelling houses inspected under and for the purposes of Section 17 of the Act of 1909 during 1912, and which, on inspection, were considered to be in a state so dangerous or injurious to health as to be unfit for human habitation ...

The following representations were made to the local authority during the year with a view to the making of closing orders, viz. :—

- 1 to 15 Chapel Place
- 1 to 9 Chapel Square
- 1 to 5 Marsden Villas
- 25 Waterloo Place
- 1 to 5 Upper Beckwith Street
- 2 to 6 Brassey Street
- 7 Upper Beckwith Street and 1 Anglesea Terrace, 8 Brassey Street and 7 Anglesea Terrace, 12 Brassey Street and 12 Anglesea Terrace, and 3, 4, 5, 6, 8 and 10 Anglesea terrace
- 3 to 11 and 6 to 14 Laxey Terrace, 14 Brassey Street and 13 Laxey Terrace, and 13 Brassey Street and 16 Laxey Terrace
- 184 and 186 Chester Street
- 8 to 18 Vicars Court
- 2 to 14 Havelock Street
- 2 to 14 Back Havelock Street
- 1 to 11 Havelock Street
- 3 to 11 Back Havelock Street
- 1 to 15 Myrtle Street
- 3 to 15 Back Myrtle Street
- 1 to 7 Kellett's Place
- 8 to 12 Kellett's Place
- 73, 75 and 77 St. Paul's Road
- 2 Oaktree Place and 1 to 11 Oaktree Terrace

The number of closing orders made	...	...	...	12
-----------------------------------	-----	-----	-----	----

The number of dwelling houses the defects in which were remedied without the making of closing orders	...	...	...	10
---	-----	-----	-----	----

In connection with this work it may be explained that there are a large number of houses, the subject of representations, now in course of being altered and made fit for habitation, under arrangement with the Health Committee, and in which the work was not completed at the end of the year.

The number of dwelling houses which, after the making of closing orders, were put into a fit state for human habitation	...      ...      ...      ...      ...	1
The number of dwelling houses which, after the making of closing orders, were altered into stores	...      ...	3
The number of demolition orders made	...      ...      ...	11
The total number of dwelling houses demolished	...	38

The general character of the defects found to exist were back to back houses, solid backed houses, no through ventilation, crowded and confined conditions, the want of, or insufficient yard space, water supply and sanitary conveniences, and general repairs.

In addition to the dwelling houses dealt with under Section 17, 39 houses have been inspected and made fit for human habitation under Sections 14 and 15 of the Act of 1909.

988 dwelling houses have also been thoroughly inspected during the year under the provisions of the Public Health Act 1875, and the various defects found therein remedied, and the houses put into a proper and satisfactory condition.

I think the year's record must be considered a satisfactory one.

I am, Gentlemen,

Your obedient servant.

R. SYDNEY MARDEN,

*Medical Officer of Health.*

PUBLIC HEALTH DEPARTMENT,

TOWN HALL, BIRKENHEAD.

23rd April, 1913.

THE INFECTIOUS DISEASES HOSPITAL,  
TOLLEMACHE ROAD.

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Report for the Year 1912.

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HOSPITAL VISITING SUB-COMMITTEE.

MR. ALDERMAN E. G. MASON, J.P., Chairman.

MR. ALDERMAN H. L. PEARSON, J.P., M.R.C.S.

MR. ALDERMAN THOMAS SHAW.

MR. ALDERMAN MICHAEL BYRNE.

MR. COUNCILLOR W. W. KELLY.

MATRON:

MISS EMILY YEOMANS.

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There has been no addition to the number of beds in the hospital during the year. The Staff consists of the Matron, 17 nurses, 19 female servants, an engineer, 2 porters and 2 gardeners.

The total number of patients treated in the hospital during the year (January 1st to December 31st) was 711; of these 633 were admitted during the year, and 78 remained in hospital from 1911. Out of those admitted 13 died, giving a death-rate of 2·05 per cent., a very low percentage.

The following table gives a summary of the cases treated in the hospital during the year 1912, along with the results obtained.

DISEASES	M.	F.	Re-		Died	
			covered		M.	F.
			M.	F.		
Scarlet Fever—remaining ..	27	45	27	45	..	..
admitted ..	280	288	276	286	4	2
Typhoid—admitted ..	1	4	1	4	..	..
Diphtheria—remaining ..	1	5	1	5	..	..
admitted ..	29	31	24	29	5	2
Total Treated..	338	373	329	369	9	4

Thus out of 633 cases admitted 13 died (2 05 per cent.)

The smallpox hospital, containing 44 beds, stands in its own ground, and is provided with a separate administration block, washhouse, mortuary &c., and is entirely distinct from the other hospital.

The following are the statistics regarding

#### The Smallpox Hospital, 1912.

Number of Patients.	M.	F.	Died.	
			M.	F.
Admitted 1912 .. ..	0	0	0	0
Total treated during year ..	0	0	0	0

**THE E. P. SMITH MEMORIAL CONVALESCENT FUND.**

**FOR PATIENTS WHO HAVE BEEN TREATED IN THE FEVER  
HOSPITAL.**

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Particulars relating to this fund were given in my Report for 1903.

There were no suitable cases to receive benefit by the fund during the year 1912.

The fund is regularly used as far as possible.

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APPENDIX.

- 1—Vital Statistics of Whole District during 1912 and previous years
- 2—Table showing Death Rates each week during 1912.
- 3—Causes of and Ages of Death during 1912.
- 4—Cases of Infectious Disease notified during 1912.
- 5—Infantile Mortality during the year 1912.

TABLE I.—Deaths Registered in the County Borough of Birkenhead during the year ending December 31st, 1912, classified according to age.

TABLE II.—Weekly Register of Deaths in the County Borough of Birkenhead for the year ending December 31st, 1912.

TABLE III.—Weekly Condensed Register of Deaths for 1912.

TABLE IV.—Weekly Condensed Register of Meteorological Results for 1912.

TABLE V.—Street Register of Deaths—1912.

SUPPLEMENT TO TABLE V.—Return of Deaths in Birkenhead Union Hospital and Workhouse, registered in 1912.

## Vital Statistics of Whole District during 1912 and previous Years.

Year	Population estimated to Middle of each Year	Births		TOTAL DEATHS REGISTERED IN THE DISTRICT		TRANSFERABLE DEATHS		NETT DEATHS BEARING TO THE DISTRICT				
		Un-corrected Number.	Nett. Number	Under 1 year of age		Under 1 year of age		At all ages				
				Rate	Number	Rate	Number	Rate per 1,000 Nett Births	Number			
1907	122978	3727	30·3	1829	14·8	17	31	410	110	1813	11·9	
1908	125026	3775	30·1	1929	15·4	14	36	516	136	1951	15·6	
1909	127108	3737	29·4	1946	15·3	16	35	458	122	1945	15·4	
1910	129227	3730	28·8	1980	15·3	17	30	507	135	1983	15·4	
1911	131377	3748	28·4	2054	15·6	29	82	509	136	2107	16·0	
1912	133521	3793	3774	23·2	1920	14·3	36	80	371	98	1964	14·7

Total Population at all ages - 130,794  
 Number of inhabited houses - 24,343  
 Average number of persons per house 5·3  
 Area of District in acres  
 (exclusive of area covered by water) } 3,850

At Census, 1911

Table shewing Death Rates each week during  
year 1912.

(Unrevised as to transferable deaths from other districts).

Week Ending 1912.	No. of Deaths.	Death rate per 1,000	Week Ending 1912.	No. of Deaths.	Death rate per 1,000.
January 7	37	14·4	July 7	34	13·2
14	34	13·2		14	9·3
21	37	14·4		21	7·3
28	43	16·7		28	11·6
February 4	46	17·9	August 4	32	12·4
11	51	19·8		11	12·0
18	45	17·5		18	10·5
25	48	18·6		25	7·0
March 3	50	19·4	September 1	32	12·4
10	33	12·8		8	13·6
17	38	14·7		15	15·1
24	33	12·8		22	14·7
31	37	14·4		29	10·1
April 7	39	15·1	October 6	36	14·0
14	39	15·1		13	17·1
21	30	11·6		20	16·7
28	37	14·4		27	16·7
May 5	26	10·1	November 3	39	15·1
12	43	16·7		10	15·9
19	27	10·5		17	11·2
26	32	12·4		24	12·4
June 2	43	16·7	December 1	44	17·1
9	34	13·2		8	17·5
16	27	10·5		15	13·2
23	27	10·5		22	15·5
30	34	13·2	(9 days) 31	61	23·7

# Causes of, and Ages at, Death during Year 1912.

CAUSES OF DEATH.	NETT DEATHS AT THE SUBDIVINED AGES OF RESIDENTS, WHETHER OCCURRING WITHIN OR WITHOUT THE DISTRICT.										DEATHS IN OR BELONGING TO LOCALITIES AT ALL AGES.						TOTAL DEATHS IN PUBLIC INSTI- TUTIONS IN THE DISTRICT				
	All ages year		Under 1 year		1 under 5		2 under 5		5 and under 15		15 and under 25		25 and under 45		45 and under 65		65 and up- wards				
	Certified	Uncertified															Bir- ming- ham	Ken- head	Tran- mere	Oxton	Beb- ington
All causes	1957	370	161	105	103	64	268	425	461	1957	982	502	86	28	32	327	141	...	...	...	...
Enteric Fever	...	...	5	...	...	3	2	...	...	4	...	1	...	...	...	...	...	4	...	...	...
Smallpox	...	...	52	7	33	10	2	...	...	52	42	7	1	...	...	...	2	...	1	...	...
Measles	...	...	10	1	3	6	...	...	...	10	8	2	...	...	...	...	1	...	6	...	...
Scarlet fever	...	...	49	20	15	14	11	...	...	49	28	14	5	...	...	...	1	...	5	...	...
Whooping-cough	...	...	22	2	4	4	1	1	1	22	15	5	2	...	...	...	1	...	5	...	...
Diphtheria and Membranous Croup	...	...	11	...	...	...	1	4	5	11	7	3	1	...	...	...	1	...	1	...	...
Influenza	...	...	5	2	...	...	1	1	1	5	2	1	1	...	...	...	1	...	1	...	...
Erysipelas	...	...	...	...	...	...	...	3	...	...	2	1	1	...	...	...	3	...	1	...	...
Cerebro-Spinal Fever	...	...	2	...	...	2	8	28	1	...	6	3	...	...	...	7	2	...	41	1	...
Other Zymotic Diseases	...	...	6	2	...	...	...	...	...	6	150	64	36	...	...	...	1	...	4	...	...
Phtisis (Pulmonary Tuberculosis)	150	1	...	...	...	...	...	...	...	...	23	17	9	1	...	...	1	...	9	...	...
Tuberculous Meningitis	28	4	7	7	9	2	1	1	1	29	13	10	1	...	...	1	...	4	...	...	
Other tuberculous diseases	29	4	8	5	2	1	7	1	1	29	13	10	1	...	...	1	...	4	...	...	
Rheumatic Fever, Rheumatism	9	...	...	1	1	1	4	3	3	9	3	3	...	...	...	4	...	2	1	...	...
Cancer, malignant disease	126	21	10	3	1	1	5	71	38	126	48	42	4	...	...	6	...	25	5	...	...
Bronchitis	162	17	26	15	3	1	5	45	74	162	99	34	3	...	...	2	...	24	6	...	...
Broncho-Pneumonia	79	14	16	11	13	2	34	28	8	126	72	30	3	...	...	1	...	1	4	...	...
Pneumonia, all other forms	126	14	16	11	13	2	11	12	9	64	30	16	4	...	...	1	...	20	17	...	...
Other diseases of Respiratory organs	54	14	2	5	1	...	1	1	1	64	48	10	2	...	...	1	...	3	2	...	...
Diarrhoea and Enteritis	64	30	17	5	3	2	1	1	1	64	48	10	2	...	...	1	...	4	3	...	...
Appendicitis and Typhilitis	8	...	...	1	3	...	1	1	1	8	5	1	...	...	...	5	...	5	...	...	...
Alocoholism	2	...	...	...	...	...	4	8	5	17	6	4	...	...	...	1	...	6	...	1	...
Cirrhosis of Liver	17	...	1	1	3	2	7	11	10	35	15	12	1	...	...	2	...	5	5	...	...
Nephritis and Bright's Disease	35	...	...	1	1	1	3	2	1	...	...	2	...	...	...	...	...	2	...	...	...
Puerperal Fever	2	...	...	...	...	...	1	6	...	...	7	4	2	1	...	...	...	...	2	...	...
Other accidents and diseases of Pregnancy and Parturition	7	...	...	...	...	...	1	6	...	...	7	4	2	1	...	...	...	...	2	...	...
Congenital Deformity & Malformation, including Premature Birth	164	6	3	8	2	11	20	7	...	173	103	46	9	...	...	1	...	11	13	...	...
Violent Deaths, excluding Suicide	56	1	6	1	1	1	1	4	...	55	34	9	5	...	...	1	...	6	...	23	...
Suicides	6	...	3	4	8	4	10	36	29	100	40	29	3	7	2	19	4	6	...	4	...
Meningitis (not Tuberculous)	181	9	3	3	13	11	27	66	52	181	77	52	9	5	2	19	36	9	...	9	...
Heart Disease	42	12	2	10	4	42	70	207	146	389	146	102	20	9	8	8	104	12	...	104	...
Other Diseases	389	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1964	371	162	105	103	64	269	426	464	1964	986	505	86	28	32	327	141	...	...	...	...

## Infantile Mortality during the year 1912.

CAUSE OF DEATH.			
All Causes:—			
Certified			
Uncertified			
Common Infectious Diseases:—			
Smallpox	..	..	82
Chickenpox	..	..	1
Measles	..	..	14
Scarlet Fever	..	..	15
Whooping Cough	..	..	26
Diphtheria and membranous croup	..	..	137
Erysipelas	..	..	1
Tuberculous Diseases:—			
Tuberculous Meningitis	..	..	77
Abdominal Tuberculosis	..	..	49
Other Tuberculous Diseases	..	..	52
Menigitis (not tuberculous)	..	..	55
Convulsions	..	..	370
Laryngitis and Croup	..	..	1
Bronchitis	..	..	1
Pneumonia (all forms)	..	..	1
Diarrhoeal Diseases:—			
Diarrhoea, all forms	..	..	1
Enteritis	..	..	1
Gastritis	..	..	1
Syphilis	..	..	1
Kickets	..	..	1
Suffocation, overlying	..	..	1
Injury at Birth	..	..	1
Atelectasis	..	..	1
Wasting Diseases:—			
Congenital Malformations	..	..	19
Premature Birth	..	..	5
Atrophy, Debility, Marasmus	..	..	2
Other Causes	..	..	2
		Under 1 week	
		1-2 weeks	
		2-3 weeks	
		3-4 weeks	
		Total under 1 month	
		1-3 mos.	
		3-6 mos.	
		6-9 mos.	
		9-12 mos.	
		Total Deaths und'r 1-yr	

**Cases of Infectious Disease notified during the year 1912.**

Notifiable Disease.	Number of Cases notified.										Total Cases notified in each Locality (e.g. Parish or Ward) of the District.										
	At all Ages, given		Under 1 year		1 to 5 years.		5 to 15 years.		15 to 25 years.		25 to 45 years.		45 to 65 years.		65 and upwards						
Smallpox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
Cholera	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
Diphtheria (including Membranous Croup)	141	2	34	80	13	11	1	...	...	...	...	...	...	...	...	...					
Erysipelas	82	3	4	156	582	35	20	1	...	...	...	...	...	...	...	...					
Scarlet Fever	790	3	4	156	582	35	20	1	...	...	...	...	...	...	...	...					
Typhus Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
Enteric Fever	23	1	1	5	7	8	2	...	...	...	3	1	3	1	2	5					
Relapsing Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
Continued Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
Puerperal Fever	19	1	...	...	...	6	12	...	...	...	4	3	2	4	...	...					
Plague	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
Cerebro-Spinal Fever	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
Under 1908	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...					
Phthisis	Tuberculosis		Regulations		Under 1911		Tuberculosis		Regulations		Others										
Totals...	1537	5	10	246	724	159	235	84	12	195	434	312	18	65	213	175	74	25	18	8	633

TABLE 1.—Deaths Registered in the Borough of Birkenhead during the Year ending December 31st, 1912.



TABLE II.—Weekly Register of Deaths in the County Borough of Birkenhead for the Year ending December 31st, 1912.

**BIRKENHEAD SUB-REGISTRATION DISTRICT**

**Note.**—The weeks end January 7th, 14th, 21st, &c., the last week in the year includes one day extra.



TABLE II.—Weekly Register of Deaths in the County Borough of Birkenhead for the Year ending December 31st, 1912.

**TRANMERE SUB-REGISTRATION DISTRICT**

**NOTE.**—The weeks end January 7th, 14th, 21st, &c., the last week in the year includes



TABLE II.—Weekly Register of Deaths in the County Borough of Birkenhead for the Year ending December 31st, 1912.

CLASS	CAUSE OF DEATH.	WEEKS.																				
		1ST	2ND	3RD	4TH																	
I.—	Small pox	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Chicken Pox	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Measles	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Scarlatina (Scarlet Fever)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Diphtheria	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Quinsy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Membranous Croup	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Whooping Cough	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Typhus Fever	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Typhoid or Enteric Fever	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Simple Continued Fever	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Erysipelas	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Puerperal Fever	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Carbuncle	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Induzza	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Dysentery	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Diarrhoea	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Cholera	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Ague	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Remittent Fever	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Mumps	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Other Zymotic Diseases	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Syphilis	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Glanders	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Cerebro-Spinal Fever	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
II.—	Privation	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Purpura or Scabv	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Rickets	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Alcoholism—Delirium Tremens	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Pneumonia Poisoning	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Thrush	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Dropsey	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Cancer	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Noma (Cancrum Oris)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Morphia	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Chorea	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Epilepsy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Convulsions	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Spinal Disease (undistinguished)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Brain Disease (undistinguished)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Pericarditis	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Aneurism	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Angina Pectoris	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Embolism	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Disease of Blood Vessel	1	2	3	4	5																



TABLE II.—Weekly Register of Deaths in the County Borough of Birkenhead for the Year ending December 31st, 1912.

UNION HOSPITAL											
WEEKS.	CAUSE OF DEATH.	WEEKS.									
		1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
I.—	Small pox . . . . .	1	2	3	4	5	6	7	8	9	10
	Chicken Pox . . . . .	1	2	3	4	5	6	7	8	9	10
	Measles . . . . .	1	2	3	4	5	6	7	8	9	10
	Scarletina (Scarlet Fever) . . . . .	1	2	3	4	5	6	7	8	9	10
	Diphtheria . . . . .	1	2	3	4	5	6	7	8	9	10
	Quinsay . . . . .	1	2	3	4	5	6	7	8	9	10
	Membranous Croup . . . . .	1	2	3	4	5	6	7	8	9	10
	Whooping Cough . . . . .	1	2	3	4	5	6	7	8	9	10
	Typhoid or Enteric Fever . . . . .	1	2	3	4	5	6	7	8	9	10
	Simple Continued Fever . . . . .	1	2	3	4	5	6	7	8	9	10
	Erysipelas . . . . .	1	2	3	4	5	6	7	8	9	10
	Puerperal Fever . . . . .	1	2	3	4	5	6	7	8	9	10
	Carbuncle . . . . .	1	2	3	4	5	6	7	8	9	10
	Induræza . . . . .	1	2	3	4	5	6	7	8	9	10
	Dysentery . . . . .	1	2	3	4	5	6	7	8	9	10
	Diarrhea . . . . .	1	2	3	4	5	6	7	8	9	10
	Cholera . . . . .	1	2	3	4	5	6	7	8	9	10
	Agne . . . . .	1	2	3	4	5	6	7	8	9	10
	Remittent Fever . . . . .	1	2	3	4	5	6	7	8	9	10
	Mumps . . . . .	1	2	3	4	5	6	7	8	9	10
	Other Zymotic Diseases . . . . .	1	2	3	4	5	6	7	8	9	10
	Syphilis . . . . .	1	2	3	4	5	6	7	8	9	10
	Glands . . . . .	1	2	3	4	5	6	7	8	9	10
	Cerebro-Spinal Fever . . . . .	1	2	3	4	5	6	7	8	9	10
II.—	Privation . . . . .	1	2	3	4	5	6	7	8	9	10
	Inanition of Infancy . . . . .	1	2	3	4	5	6	7	8	9	10
	Parpura or Scury . . . . .	1	2	3	4	5	6	7	8	9	10
	Rickets . . . . .	1	2	3	4	5	6	7	8	9	10
	Alcoholism—Delirium Tremens . . . . .	1	2	3	4	5	6	7	8	9	10
	Ptomaine Poisoning . . . . .	1	2	3	4	5	6	7	8	9	10
	Thrush . . . . .	1	2	3	4	5	6	7	8	9	10
	Dropsy . . . . .	1	2	3	4	5	6	7	8	9	10
	Cancer . . . . .	1	2	3	4	5	6	7	8	9	10
	Noma (Caevum Oris) . . . . .	1	2	3	4	5	6	7	8	9	10
	Mortification . . . . .	1	2	3	4	5	6	7	8	9	10
	Abscess or Tumor . . . . .	1	2	3	4	5	6	7	8	9	10
	Rheumatism . . . . .	1	2	3	4	5	6	7	8	9	10
	Tubes Mesenterica . . . . .	1	2	3	4	5	6	7	8	9	10
	Phthisis (Consumption) . . . . .	1	2	3	4	5	6	7	8	9	10
	Hemoptysis . . . . .	1	2	3	4	5	6	7	8	9	10
	Hydrocephalus . . . . .	1	2	3	4	5	6	7	8	9	10
	Other Timbercular Diseases . . . . .	1	2	3	4	5	6	7	8	9	10
	Anemia . . . . .	1	2	3	4	5	6	7	8	9	10
	Neuritis . . . . .	1	2	3	4	5	6	7	8	9	10
III.—	Cephalitis . . . . .	1	2	3	4	5	6	7	8	9	10
	Apoplexy . . . . .	1	2	3	4	5	6	7	8	9	10
	Paralysis . . . . .	1	2	3	4	5	6	7	8	9	10
	Chorea . . . . .	1	2	3	4	5	6	7	8	9	10
	Epilepsy . . . . .	1	2	3	4	5	6	7	8	9	10
	Convulsions . . . . .	1	2	3	4	5	6	7	8	9	10
	Spinal Disease (undistinguished) . . . . .	1	2	3	4	5	6	7	8	9	10
	Brain Disease (undistinguished) . . . . .	1	2	3	4	5	6	7	8	9	10
	Pericarditis . . . . .	1	2	3	4	5	6	7	8	9	10
	Angina Peitoris . . . . .	1	2	3	4	5	6	7	8	9	10
	Encephalitis . . . . .	1	2	3	4	5	6	7	8	9	10
	Disease of Blood Vesse . . . . .	1	2	3	4	5	6	7	8	9	10
	Heart Disease (undistinguished) . . . . .	1	2	3	4	5	6	7	8	9	10
	Laryngitis, Tonsillitis and Croup . . . . .	1	2	3	4	5	6	7	8	9	10
	Bronchitis . . . . .	1	2	3	4	5	6	7	8	9	10
	Pleurisy . . . . .	1	2	3	4	5	6	7	8	9	10
	Pneumonia . . . . .	1	2	3	4	5	6	7	8	9	10
	Asthma . . . . .	1	2	3	4	5	6	7	8	9	10
	Congestion of Lungs (undistinguished) . . . . .	1	2	3	4	5	6	7	8	9	10
	Disease of Lungs (undistinguished) . . . . .	1	2	3	4	5	6	7	8	9	10
	Laryngismus Stridulus . . . . .	1	2	3	4	5	6	7	8	9	10
	Stomatitis . . . . .	1	2	3	4	5	6	7	8	9	10
	Pharyngitis . . . . .	1	2	3	4	5	6	7	8	9	10
	Gastritis and Gastric Ulcer . . . . .	1	2	3	4	5	6	7	8	9	10
	Enteritis . . . . .	1	2	3	4	5	6	7	8	9	10
	Peritonitis and Appendicitis . . . . .	1	2	3	4	5	6	7	8	9	10
	Ascites . . . . .	1	2	3	4	5	6	7	8	9	10
	Hernia (Rupture) . . . . .	1	2	3	4	5	6	7	8	9	10
	Obstruction of Bowels . . . . .	1	2	3	4	5	6	7	8	9	10
	Inussusception . . . . .	1	2	3	4	5	6	7	8	9	10
	Stricture of Intestines . . . . .	1	2	3	4	5	6	7	8	9	10
	Fistula . . . . .	1	2	3	4	5	6	7	8	9	10
	Haematemesis . . . . .	1	2	3	4	5	6	7	8	9	10
	Stomach Diseases (undistinguished) . . . . .	1	2	3	4	5	6	7	8	9	10
	Pancreas Disease . . . . .	1	2	3	4	5	6	7	8	9	10
	Jenudice . . . . .	1	2	3	4	5	6	7	8	9	10
	Hepatitis . . . . .	1	2	3	4	5	6	7	8	9	10
	Cirrhosis of Liver . . . . .	1	2	3	4	5	6	7	8	9	10
	Liver Disease . . . . .	1	2	3	4	5	6	7	8	9	10
	Spleen Disease . . . . .	1	2	3	4	5	6	7	8	9	10
	Dyspepsia . . . . .	1	2	3	4	5	6	7	8	9	10
	Aphyxia . . . . .	1									

Note.—The weeks end January 7th, 14th, 21st, &c., the last week in the year includes one day extra.



**TABLE V.**  
**STREET REGISTER OF DEATHS.**

STREETS.				STREETS.			
		Total from all Causes.	From Zymotic Diseases only			Total from all Causes.	From Zymotic Diseases only
Abbey street ..	..	4		Athol terrace ..	..		
Abbey terrace ..	..	2	1	Austin street ..	..	1	
Abbot street ..	..	3		Back Arthur street ..	..		
Aberdeen street ..	..	1		Back Beckwith terrace ..	..	1	
Ackworth place ..	..			Back Camden street ..	..		
Acton road ..	..	1		Back George street ..	..	2	
Adelaide road ..	..	1		Back Havelock street ..	..		
Adelphi street ..	..	1		Back Livingstone street ..	..		
Albany Road ..	..			Back Myrtle street ..	..		
Albert place ..	..			Back Oliver street ..	..		
Albert road ..	..	2		Back Oxton road ..	..		
Albert street ..	..			Back Pilgrim street ..	..		
Albert terrace ..	..			Back Price street ..	..	1	
Albion street ..	..	1		Back St. Anne street ..	..	4	1
Allcot avenue ..	..			Back Salisbury street ..	..		
Alderley avenue ..	..			Balfour road ..	..	1	
Alexandra drive ..	..	1		Balls road ..	..		
Alexandra road ..	..			Balls road east ..	..	1	
Alfred road ..	..	3		Barkville road ..	..	1	
Alison street ..	..	2	1	Banning street ..	..	4	
Allerton grove ..	..	1		Barnard road ..	..	1	1
Allerton road ..	..	1		Barnston street ..	..	1	1
Alina street ..	..			Barton street ..	..	3	
Alpha drive ..	..			Baytree road ..	..	2	
Alton road ..	..			Beaconsfield road ..	..	2	1
Alvanley place ..	..	1		Beaufort road ..	..		
Alverstone avenue ..	..	1		Bebington road ..	..	2	
Amery grove ..	..			Beckwith street ..	..	29	5
Anglesea terrace ..	..			Bedford place ..	..		
Apple grove ..	..			Bedford road ..	..	8	2
Argyle street ..	..	4		Bedford street ..	..	1	
Argyle street south ..	..	7		Beech road ..	..	3	
Arno road ..	..	1		Beech view (Sydney terr) ..	..		
Arnside road ..	..			Belgrave terrace ..	..		
Arrow place ..	..	1		Belmont ..	..	2	
Arthur street ..	..	8		Belmont grove ..	..	3	1
Ash road ..	..	2		Bennetts hill ..	..	2	
Ashburton road ..	..	1		Bentinck place ..	..	1	
Ashford road ..	..			Bentinck street ..	..	11	3
Ashley street ..	..	1		Bentinck terrace ..	..	2	
Ashville road ..	..			Bentley road ..	..	1	
Aspendale road ..	..	4		Beresford road ..	..	1	
Aspinall street ..	..	5	1	Berner street ..	..	1	
Asquith Avenue ..	..	1		Berry street ..	..	2	
Astonwood road ..	..	3		Bertha street ..	..	3	1
Atherton street ..	..			Bessborough road ..	..		
Athol street ..	..			Bidston avenue ..	..	1	



TABLE V.—Continued.

STREETS.	Total from all Causes.	From Zymotic Diseases only	STREETS.	Total from all Causes.	From Zymotic Diseases only
Bidston road ..	2		Caroline place ..		
Birch road ..			Carrington street ..	1	1
Birkenhead park ..			Castle street ..		
Blackpool street ..	2		Cathcart street ..	7	2
Blandford street ..			Catherine street ..		
Blucher street ..	1		Cavendish drive ..		1
Bold street ..	1		Cavendish road ..		
Booth street ..			Cavendish street ..		1
Borough road ..	26	2	Cearns road ..		1
Boundary road ..			Cedar street ..		
Braid Street ..	1		Challis street ..		
Brancote road ..			Chamberlain street ..		
Brandon cottages ..	1		Chapel place (B'head) ..	2	1
Brandon street ..			Chapel place (Tranmere) ..		
Brassey street ..	4		Chapel square ..		2
Brattan road ..	1		Chapel street ..	5	1
Bray street ..	4	1	Charlecombe street ..		
Briardale road ..	5		Charles street ..		
Bridge street ..	9	1	Charlesville ..		
Bridge End terrace ..			Charing cross ..		
Bright street ..	3	1	Chatham road ..		5
Brill street ..	1		Chatsworth road ..		
Brimstage street ..	1		Chesnut grove ..		1
Brook place ..	2		Chester street ..		3
Brook square ..			Chetwynd road ..		
Brook street ..	34	4	Christchurch road ..		1
Brookland road ..	3		Church place ..		
Broom Hill ..			Church road ..		4
Brougham street ..	5		Church street ..		7
Browning Avenue ..	2		Church terrace ..		
Brunswick street ..	1		Churchill avenue ..		
Buckingham avenue ..			Circular road ..		1
Budworth road ..			Clare street ..		
Burton street ..	1		Clarence road ..		1
Buxton road ..	2		Clarendon street ..		2
Caerwys grove ..			Claughton firs ..		
Caldy place ..	1		Claughton place ..		
Cambridge place ..			Claughton road ..		11
Camden street ..	6	1	Clayton street ..		
Campbell terrace ..	1		Cleveland avenue ..		3
Camperdown street ..			Cleveland street ..		15
Canning street ..	1		Clifford street ..		2
Cannon hill ..			Clifton crescent ..		
Canterbury road ..	3		Clifton road ..		3
Cardigan street ..	2		Clive road ..		1
Carlisle street ..	9	5	Club row ..		
Carlton mount ..			Clyde street ..		1
Carlton road ..	1		Cobden place ..		2
Carnforth street ..	8	1	Cobden street ..		6
Carnforth terrace ..	2		Coburg street ..		1

TABLE V.—*Continued.*

STREETS.	Total from all Causes.	From Zymotic Diseases only.	STREETS.	Total from all Causes.	From Zymotic Diseases only.
Cole street ..	5		Eastbourne road ..	1	
Collingwood street ..			Eastham street ..	1	
Columbia road ..			Eaton road ..	1	
Colwyn street ..	1	1	Ebenezer street ..	4	
Combermere terrace ..			Edgar street ..	2	
Comet street ..	3		Egerton park ..	3	
Connaught street ..	1		Egerton road ..		
Connor's court ..			Egerton street ..	7	1
Conway place ..	3		Elderwood road ..	2	
Conway street ..	8	1	Eldon place ..	5	
Cook street ..	1		Eldon road ..		
Corfu street ..			Eldon street ..	6	1
Corporation road ..	6	1	Elfet street ..		
Cottage street ..	3		Elgin street ..		1
Coventry street ..	1		Elizabeth place ..		1
Cranbourne avenue ..	1		Elm grove ..		1
Craven place ..	1		Elm road ..		
Craven street ..	8		Elm street ..		
Cressington avenue ..			Elmswood road ..	8	1
Crofton road ..	1		Enfield terrace ..		
Cromwell street ..			Erskine street ..		1
Cross street ..			Esplanade ..		
Crown street ..	1		Etna street ..		
Croxteth street ..	2	1	Euston grove ..		1
Cumberland place ..	5		Exmouth street ..	9	
Curzon avenue ..	1		Falcon road ..		
Cyprus street ..			Fairclough road ..		
Dacre street ..	8	2	Fairfax road ..		1
Dale street ..			Fairfield road ..		3
Davies street ..	6	2	Fairview road ..		
Dee street ..			Falkland street ..		1
Dell road ..	1		Farm road ..		1
Derby road ..	5	1	Fearnley road ..		
Derby street ..	3		Field street ..		7
Derwent road ..			Flamank street ..		12
Devonshire place ..	3		Flaybrick hill cemetery ..		
Devonshire road ..	3		Flint street ..		3
Dial road ..			Florence street ..		2
Dingle road ..			Fore street ..		6
Dock quay ..			Forest road ..		
Donegal street ..			Fountain street ..		3
Doric street ..			Fox street ..		8
Douglas street ..			Francis avenue ..		
Dover street ..	2		Frederick street ..		3
Downham road ..	3		Freeman street ..		
Duke street ..	3		Frodsham street ..		3
Duncan street ..	1		Garfield place ..		
Dundonald street ..			Garner's place ..		
Eagle court ..	2		Garnet street ..		1
Earl street ..	8		George street ..		5

TABLE V.—*Continued.*

STREETS.	Total from all Causes.	From Zymotic Diseases only	STREETS.	Total from all Causes.	From Zymotic Diseases only
Gerald road ..			Harriet street ..	2	
German ter. (Price st.)	3	1	Harrowby road ..	6	
Gertrude street..			Harrowby road south ..		
Getley street ..	2	1	Hatherley street ..	1	1
Gladstone road ..	4	2	Havelock street..		
Gladstone street ..	7	2	Hawarden avenue ..	1	
Glasgow street ..			Hawthorne road ..		
Glenmore road ..	1		Haymarket ..		
Glover street ..	4		Hazel road ..	2	
Gomer street ..	3		Heath bank road ..		
Gordon street ..	1		Heather brow ..		
Gore street ..	1		Heathfield road ..	1	
Gorsefield road..	1		Heath terrace ..		
Gothic street ..	1		(Bennett's hill)		
Grace street ..	1	1	Helmingham road ..	3	
Grace terrace ..			Hemingford street ..	2	
Grafton street ..	1		Hemingford terrace ..		
Grange mount ..	1		Henry street ..	4	2
Grange place ..	1		Henthorne street ..		
Grange road ..	2		Herbert place ..		
Grange road west ..	5	1	Hightfield crescent ..	1	
Grange street ..			Hightfield grove..	2	
Grasville road ..	1				
Green lane ..	1	1	Highfield road ..	3	
Green lawn ..	1		Highfield south..		
Greenbank road ..	1		Highgreen road ..		
Greenfield street ..	3		Hilbre street ..	3	
Greenway road ..	3		Hillside road ..		
Grenville road ..	1		Hill road ..	1	
Grosvenor place ..			Hilton street ..	6	1
Grosvenor road ..	2	1	Hind street ..		
Grosvenor street ..	3		Hinderton road..		
Grosvenor terrace ..			Hinson street ..		
Grove mount ..	1		Holborn hill ..		
Grove road ..	7		Holborn square ..		
Haddon road ..	2		Holly bank road ..	4	1
Haleyon road ..	5		Holm lane ..		
Haldane avenue ..			Holt hill..		
Halkin street ..	2		Holt hill terrace ..		
Hamilton lane ..			Holt road ..		
Hamilton square ..	2		Holt terrace ..		
Hamilton street ..	1		Hope street ..		
Hamilton view ..			Hope terrace ..		
Hampden grove ..	1		Horatio street ..		
Hampden road ..	2		Hornby street ..		
Hampton street ..	5	1	Houldin's place ..		
Harcourt street..	2		Howard street ..		
Harland road ..	3	1	Howbeck road ..		
Harper's court ..			Howe street ..		
Huntington avenue ..			Howson street ..	2	1

TABLE V.—*Continued.*

STREETS.	Total from all Causes.	From Zymotic Diseases only.	STREETS.	Total from all Causes.	From Zymotic Diseases only.
Hoylake road ..	..		Lingdale road north ..	..	1
Hughes' buildings ..	..		Liuwood road ..	..	4
Hughes lane ..	..		Liversidge road ..	..	2
Huskisson street ..	..		Livingstone road ..	..	4
Inglemere road ..	..	1	Livingstone street ..	..	8
Ingestre road ..	..	1	Lloyd avenue ..	..	1
Ivy bank ..	..		Lord street ..	..	4
Ivy court ..	..		Lorn street ..	..	2
Ivy street ..	..	6	Lorne road ..	..	1
Ivydale road ..	..	1	Lowe street ..	..	1
Jackson street ..	..	3	Lower Ivy street ..	..	
James street ..	..	1	Lower George street ..	..	
Jessamine road ..	..	4	Lowther street ..	..	5
John street ..	..		Lowwood grove ..	..	
Keightley street ..	..	4	Lowwood road ..	..	1
Kellett's place ..	..		Lunar street ..	..	3
Kelvin road ..	..		Lydia terrace ..	..	2
Ken-lal street ..	..		Lynas street ..	..	2
Kent place ..	..	1	Maddock street ..	..	
Kent street ..	..		Mallaby street ..	..	3
Kimberley street ..	..		Malta street ..	..	
King street ..	..	2	Manor hill ..	..	1
King's mount ..	..		Maple street ..	..	
Kingsdown street ..	..		Marcus street ..	..	
Kingsland road ..	..	1	Marion grove ..	..	2
Kingsley street ..	..	6	Marion street ..	..	3
Kingsmead road north ..	..		Market ..	..	
Kingsmead road south ..	1		Market place south ..	..	
Kipling avenue ..	..	2	Market street ..	..	10
Kinnel street ..	..	2	Marlborough grove ..	..	
Kirkland avenue ..	..	3	Marquis street ..	..	
Knowles street ..	..	1	Marsden villas ..	..	
Knowsley road ..	..	1	Marshall place ..	..	
Knox street ..	..		Marshall street ..	..	
Kylemore road ..	..		Mason's court ..	..	
Laird street ..	..	9	Mason street ..	..	1
Lansdowne road ..	..	9	Massey street ..	..	2
Larch road ..	..	1	Mather road ..	..	3
Laurel road ..	..		Maybank road ..	..	4
Laxey terrace ..	..	1	Meadow lane ..	..	2
Lea street ..	..		Meadow place ..	..	1
Lees' avenue ..	..	2	Meadow street ..	..	
Leicester street ..	..	6	Medway road ..	..	
Leicester terrace ..	..	2	Mellor road ..	..	1
Leighton road ..	..	2	Menai street ..	..	5
Leinster street ..	..		Mere farm road ..	..	
Leta street ..	..	2	Mersey lane south ..	..	1
Lever terrace ..	..		Mersey mount ..	..	
Lilly street ..	..		Mersey road ..	..	6
Lingdale road ..	..		Merton place ..	..	1

TABLE V.—*Continued.*

STREETS.	Total from all Causes.	From Zymotic (Diseases only)	STREETS.	Total from all Causes.	From Zymotic (Diseases only)
Meteor street ..	1		Oakdene road ..	1	
Methuen street ..	2		Oakfield view ..	4	1
Midland street ..	1		Oak tree cottages ..		
Mill street ..	2		Oak tree place ..	4	
Miller's place ..	2		Oak tree terrace ..		
Millbank cottages ..			Old Bidston road ..	6	2
Milner street ..	5	1	Old Chester road ..	11	1
Milton road ..	2		Old Priory ..	3	1
Milton street ..			Olive crescent ..		
Miriam place ..			Olive mount ..	1	
Mollington street ..			Oliver lane ..		
Mona street ..	2		Oliver place ..	3	1
Monk street ..	1		Oliver street ..	15	1
Monk's ferry ..	1		Orchard road ..	2	1
Moon street ..	5		Oriel road ..	4	
Moorland road ..	3		Osborne road ..		
Morecroft road ..	1		Osmond street ..	2	1
Morley avenue ..	1		Oxton road ..	4	
Mornington street ..	5	1	Palm grove ..	1	
Morpeth buildings ..	8	2	Palm hill ..		
Mortimer street..			Palmerston street ..		
Mossley road ..			Parkfield avenue ..	3	
Moss grove ..	1		Parkfield place ..	2	
Moss lane ..	2		Parkside road ..	1	
Mounsey road ..	2		Park grove ..	1	
Mount grove ..	3		Park road ..	4	1
Mount Pleasant ..			Park road east ..	3	
Mount road ..	1		Park road north ..	5	
Mount street ..			Park road south ..	3	
Mulberry road ..	3		Park road west..	1	
Munster street ..	2		Park street ..	5	
Myrtle court ..			Parkton grove ..	1	
Myrtle place ..			Parr's lane ..		
Myrtle street ..	4		Paterson street..	2	
Napier street ..	1		Patten street ..	4	
Nelson place ..			Payson street ..	8	1
Nelson road ..	4		Pearson road ..		
Nelson street ..	5	1	Peel street ..	7	
Neptune street ..	1		Pensby street ..		
Neston street ..	1		Penrith street ..	2	
Newburn's lane ..			Percy place ..	1	
New Chester road ..	7		Pilgrim street ..	1	
New Ferry pier..			Pitt street ..	8	3
Newling street ..	2		Planet street ..		
Newton street ..	1		Pleasant street ..	5	1
Norman street ..	1		Plumer street ..		
Normanton road ..			Plymouth place ..		
North road ..	2		Pool street ..	2	
Oak bank ..	1		Poplar road ..	1	
Oak street ..	8		Portland street ..	4	2

TABLE V.—*Continued.*

STREETS.	Total from all Causes.	From Zymotic Diseases only.	STREETS	Total from all Causes.	From Zymotic Diseases only.
Powell street ..	1		Rodney street ..	12	
Prenton road east ..	2	1	Roe street ..	1	
Prenton road west ..			Romilly street ..		
Price's lane ..			Rose brae ..		
Price street ..	14	2	Rose cottages ..		
Prince Edward street ..			Rose mount ..		
Princes place ..	1		Rose place ..		1
Price's place ..			Rose street ..		1
Princes street ..			Rosebery grove ..		
Princes terr. (Grange rd.)	3		Rosedale road ..		5
Princess terr. (Balls rd.)	1		Roslin road ..		1
Priory court ..			Roslyn street ..	2	1
Priory street ..	2	1	Ross terrace ..		
Prospect place ..	2		Rowland street ..		4
Pym street ..			Roxburgh avenue ..		
Quarry bank ..	3		Rundle street ..		2
Quarry bank place ..	2		Ruston's court ..		
Quarry bank street ..			Ruskin avenue ..		
Queen's buildings(Ato K)	28	6	Russell cottages ..		
Queen's Buildings (Tran)	3		Russell place ..		1
Queen's place ..	4	1	Russell road ..		5
Queen's road ..	1		Russell street ..		2
Queen's street ..	1		St. Andrew's road ..		
Queensbury street ..	2	2	St. Anne's grove ..		1
Quigley street ..	1		St. Anne street..	31	3
Radnor place ..	1		St. Anne's terrace ..		1
Raffles road ..	1		St. George's avenue ..		
Railway road ..	3	1	St. John street ..		
Randle street ..	2	1	St. Mary's street ..		2
Rathmore road ..			St. Mary's avenue ..		1
Ravenscroft road ..			St. Mary's gate ..		3
Ravenswood avenue ..			St. Paul's place ..		
Rawcliffe road ..			St. Paul's road ..	8	1
Redmond street ..			St. Paul's villas ..		
Reedville ..	1		St. Peter's road ..		1
Rhoden's place ..	1		Salem view (Storeton rd.) ..		
Rhyl street ..	1		Salisbury street ..		7
Richmond cottages ..	2		Samuel street ..		
Richmond terrace ..			Sandford street ..		2
Ridley street ..	2		Saxon street ..		
Rimmer's court ..			School place ..		3
Ripon street ..			Scott's court ..		
Roberts street ..	2		Scott's place ..		
Rochester road ..	2		Sea bank cottages ..		1
Rock Ferry pier ..			Sea bank road ..		1
Rock lane east ..	2		Seaton road ..		2
Rock lane west ..	1		Seeley Avenue ..		2
Rock park ..	1		Seymour street ..		1
Rockville street ..	2		Shakespeare avenue ..		
Rocky bank road ..	1		Shaw street ..		1

TABLE V.—*Continued.*

STREETS.	Total from all Causes.	From Zymotic Diseases only.	STREETS.	Total from all Causes.	From Zymotic Diseases only.
Shaw's place ..	..		Thomas court ..	..	1
Shaw's terrace ..	..		Thomas street ..	..	13
Shore road ..	..		Thompson street ..	..	5
Shotwick street ..	3	1	Thornton Street ..	..	2
Shrewsbury road ..	2		Tollemache road ..	..	2
Shrewsbury road north ..	3		Tower hill ..	..	
Sidney buildings ..	..		Tower road ..	..	3
Sidney road ..	..	1	Town road ..	..	1
Sidney street ..	..	2	Trinity street ..	..	
Sidney terrace ..	..	1	Tudor road ..	..	4
Silverdale road ..	..	2	Tunnel road ..	..	4
Simpson street ..	..	1	Turner street ..	..	2
Singleton avenue ..	..		Tuscan street ..	..	
Slatey road ..	..	1	Tyren street ..	..	
Somerville street ..	..	2	Union street ..	..	2
South bank ..	..	1	Upper Beckwith street ..	..	2
South hill grove ..	..		Upper Brassey street ..	..	5
South hill road ..	..	3	Upton road ..	..	1
South Reserve ..	..		Vardon street ..	..	
South road ..	..		Vernon place ..	..	1
Southdale road ..	..	1	Vicar's court ..	..	
Southwick road ..	..		Victoria drive ..	..	
Spring street ..	..		Victoria mount ..	..	2
Spencer Avenue ..	..		Victoria road ..	..	6
Stafford street ..	..	2	Village road ..	..	2
Standard place ..	..		Village terrace ..	..	
Stanley court ..	..	5	Vincent street ..	..	2
Stanley place ..	..		Vine street ..	..	6
Stanley road ..	..	1	Vittoria street ..	..	4
Stanley street ..	..	4	Vittoria dock and wharf ..	..	
Stanway place ..	..		Vulcan street ..	..	5
Star street ..	..		Walker place ..	..	1
Station road ..	..		Walker street ..	..	
Stewart's place ..	..	1	Walton street ..	..	2
Stewart street ..	..		Waring avenue ..	..	
Stoke street ..	..	2	Warrington street ..	..	2
Storeton road ..	..	1	Warwick street ..	..	4
Stuart road ..	..	1	Water street ..	..	2
Sun street ..	..	4	Waterford road ..	..	1
Sussex street ..	..	3	Waterloo court ..	..	
Swan's court ..	..		Waterloo place ..	..	3
Swan's place ..	..	2	Watson street ..	..	2
Sycamore road ..	..	4	Waverley grove ..	..	
Tatton road ..	..		Well lane ..	..	2
Talbot road ..	..	1	Wellesley street ..	..	4
Taylor street ..	..	2	Wellington road ..	..	1
Temple road ..	..	1	Wellington terrace ..	..	1
Templemore road ..	..	1	Wesley street ..	..	2
Tennyson Avenue ..	..		Wesley terrace ..	..	
Tetbury street ..	..		West view ..	..	1

TABLE V.—*Continued.*

STREETS.	Total from all Causes.	From Zymotic Diseases only.	STREETS.	Total from all Causes.	From Zymotic Diseases only.
West bank road ..	1		Wilton road ..	..	
Westbourne road ..	1		Wilton street ..	..	1
Westbury street ..			Windsor place ..	..	
Westminster road ..	2		Windsor street ..	..	5
Wexford road ..			Wirral street ..	..	
Whalley road ..			Woburn place ..	..	
Whetstone lane ..	4		Wood street ..	..	9
Whet-tone view ..	1		Woodchurch lane ..	..	3
White street ..	2	2	Woodchurch road ..	..	6
Whitfield place ..	1		Woodland avenue ..	..	1
Whitfield street ..	5	1	Woodland grove ..	..	
Whitford road ..	2		Woodland road ..	..	2
Wilbraham street ..			Woodland terrace ..	..	1
Wilkinson street ..	2		Woodlands ..	..	8
Wilks court ..			Woodside ..	..	
Willan street ..			Wood sorrel road ..	..	1
Willaston place ..	1		Woodville road ..	..	4
William street ..	2	1	Wordsworth avenue ..	..	1
Williams cottages ..			Wycliffe street ..	..	5
Willmer road ..	6	1	Wycherley road ..	..	6
Willowbank road ..	3		Wye street ..	..	1
Willow street ..			Yelverton road ..	..	1
Willy street ..	1		York place (Oxton road);		
Wilson street ..	7	1	Zetland road ..	..	1

## SUPPLEMENT TO TABLE V.

## RETURN OF DEATHS in Birkenhead Union Hospital and Workhouse during 1912.

Date.	Sex	Age	Occupation &c.	Cause of Death.	Date and Address of Deceased when admitted.
Jan. 1	F	73	Labourer's widow	Care of parotid gland	7 2-11 449 Corporat'n rd
2	M	82	Boiler rivetter ..	Heart disease ..	21-6-11 7 Church place
2	F	62	Boilermaker's wid	Hemiplegia ..	27-5-10 37 Bray street
3	M	47	Labourer ..	Pneumonia ..	1-1-12 66 Earl street
4	M	27	Barman ..	Pneumonia ..	2-1-12 100 Old Ch'st'r rd
4	F	28	Cooper's daughter	Pneumonia ..	30-12-11 136 Brook street
1	F	49	Gardener's daugh	Morbus cordis ..	29-12-11 S. M'rg'ret's H'me
5	M	68	Boilermaker ..	Malignant disease ..	16-6-10 Argyle L H., M'kts
6	F	22	Labourer's daugh	Phthisis ..	4-4-11 37 Field street
9	F	78	Labourer's wi low	Morbus cordis ..	27-9-11 122 Wood street
9	F	62	Biscuit p'cker's wi	Cere haemorrhage ..	4-1-12 1 Woburn place
7	M	69	Labourer ..	Blood poisoning ..	2-1-12 75 Market street
11	M	71	Carpenter ..	Aneurysm of aorta	10-1-12 75 Market street
15	M	80	Labourer ..	Senile decay ..	7-1-03 39 Egerton street
15	F	10 d	Carter's daughter	Prematurity ..	5-1-12 48 Cleveland st
18	M	74	Labourer ..	Pathisis ..	14-10-04 140 Chester street
17	M	79	Retired grocer ..	Senile decay ..	9-1-12 31 Fearnley road
20	M	86	Form papermaker	Senile decay ..	9-1-12 50 Dacre Hill
16	M	48	Able seamun ..	Rupt're of aneurysm	11 11-11 38 Abbey street
22	M	71	Labourer ..	Senility ..	20-11-11 4 Pitt street
22	M	74	Labourer ..	Senile decay ..	17-5-11 4 Fiell street
24	F	62	Grain porter's wid	Hemiplegia ..	24-11-11 13 Halkin street
26	F	34	Plater's h'lper's wi	Phthisis pulmonalis	2-1-12 6 Bedford street
27	M	72	Ship's cook ..	Senile decay ..	4-12-03 8 Westbury street
28	F	70	M'rnest're deal wi	Cirrhosis of liver ..	19-1-12 33 B'k St. Anne st
29	F	41	Fish hawker's wid	Val. disease of heart	6-10 11 9 Stewart place
28	M	62	Shoemaker ..	Care haemorrhage ..	22-1-12 5 Barton street
31	M	29	Labourer ..	Pneumonia ..	30-1-12 11 Oliver place
Feb. 2	F	65	Rly porter's widow	Senility ..	16-9-09 5 Wilson street
1	F	71	Navy's widow ..	Fracture due to fall	27-1-12 93 St. Anne street
3	M	54	Coal dealer ..	Cere haemorrhage ..	17-10-11 23 Grenville road
4	F	73	Charwoman ..	Rodent ulcer of scalp	18-9-11 205 Market street
4	M	75	Labourer ..	Senility ..	7-12-07 29 Ivy street
7	F	69	Domestic nurse ..	Senility ..	21-10-10 17 Helming'h'm rd
8	F	50	Fireman's widow	Cardiac syncope ..	7-2-12 8 Chapel place
7	F	65	Labourer's widow	Gangrene of foot ..	30-1-11 8 Cambridge place
6	F	42	Flatman's wife ..	Phthisis pulmonalis	5-8-11 277 Brook street
8	F	70	Spinning mastwid	Senility ..	14-6-11 4) Pitt street
8	F	59	Painter's wife ..	Morbus cordis ..	6-2-12 33 Queen street
12	F	69	Coachman's wid	Senile decay ..	10-2-12 73 St. Anne street
12	M	54	Railway porter ..	Bronchitis ..	31-1-12 92 Grange road
13	M	24	Toolsmith ..	Phthisis pulmonalis	7-2-12 419 Borough road
11	F	1 d	Labourer's daugh	Prematurity ..	10-2-12 3 Whetstone view
13	M	3 d	Labourer's son ..	Prematurity ..	10-2-12 3 Whetstone view

## SUPPLEMENT TO TABLE V - Continued.

Date.	Sex	Age	Occupation &c.	Cause of Death	Date and Address of Deceased when admitted
Feb. 16	M	37	Engineer ..	Epilepsy ..	6-8-09 29 Churcho street
16	M	57	Boilermaker ..	Morbus cordis ..	14-2-12 61 Price street
19	M	71	Joiner ..	Senile decay ..	14-2-12 27 Clifton crescent
18	M	65	Tailor ..	Bronchitis ..	7-2-12 73 Market street
19	F	68	Labourer's widow ..	Morbus cordis ..	17-2-12 23 Cumberland pl
21	F	65	Coal dealer's wid ..	Senility ..	17-2-12 28 Colliergate st
18	F	40	General servant ..	Phthisis pulmonalis ..	6-7-12 21 George street
18	F	56	Domestic cook ..	Bronchitis ..	14-2-12 12 Home street
23	M	35	Dock labourer ..	Heart disease ..	14-2-12 2 Eildon place
23	F	74	Labourer's widow ..	Senility ..	3-5-08 18 Abbey street
23	F	60	Labourer's widow ..	Senility ..	22-9-11 118 St Anne st
23	M	74	Army pensioner ..	Accidental fall ..	20-2-12 62 High Field grove
25	F	68	Labourer's widow ..	Cirrhosis of liver ..	19-2-12 65 Hevelock street
26	F	20	Window cl'n'r's wf ..	Phthisis pulmonalis ..	15-11-11 90 Exmouth street
21	M	57	Marine stoker ..	Val. disease of heart ..	24-1-12 100 Church street
24	F	55	Joiner's daughter ..	Care of stomach ..	12-2-12 146 Bedford road
27	M	51	Brass finisher ..	Stricture of urethra ..	21-2-12 439 Brock street
Mar. 2	F	16	Rly porter's daugh ..	Cerebral thrombosis ..	20-2-12 7 Warwick street
3	M	32	Butcher's lab'r'r ..	Paraplegia ..	9-1-12 27 Montpelier bridge
3	M	62	General labourer ..	Mal. abdominal dis ..	10-2-12 11 Myrtle street
1	F	16 m	Dom serv daugh ..	Gastro-enteritis ..	29-8-11 1 Old Chester rd
1	F	10	Straw hat maker ..	Acute nephritis ..	29-2-12 3 Nelson street
7	M	43	Boiler scaler ..	Pneumonia ..	4-3-12 92 Church street
11	F	67	Wood sawyer's wd ..	Strangulated hernia ..	9-3-12 2 Stewart place
11	F	51	Engine fitter's wf ..	Paraplegia ..	1-4-09 5 George street
9	F	86	Confectioner's wid ..	Hemiplegia ..	22-2-12 13 Alvaston place
9	M	75	Shoemaker ..	Senility ..	18-9-08 6 Waterloo place
13	F	74	Coachman's wid ..	Morbus cordis ..	8-1-12 4 Derby street
15	M	59	Carter ..	Mal oesophageal stric ..	9-12-11 94 Harrowby road
15	M	21	Shipyard labourer ..	Phthisis pulmonalis ..	5-12-11 17 Thomas street
15	M	50	General labourer ..	Senility ..	19-1-12 15 Payson street
18	M	54	General labourer ..	Malig disease of jaw ..	2-2-12 44 Albion street
21	M	71	Tinsmith ..	Malig disease of jaw ..	15-11-08 4 Camden street
19	M	38	Carter ..	Pulm'nat embolism ..	15-3-12 82 Palet street
22	M	70	Gardener ..	Cere haemorrhage ..	12-3-12 86 Maybank road
24	M	61	Joiner ..	Chronic bronchitis ..	1-9-11 12 Lowther street
24	M	35	No occupation ..	Internal haemorrhage ..	25-9-95 155 Conway street
26	F	70	Seaman's widow ..	Senility ..	23-1-12 7 Midland street
23	F	45	Hawker's wife ..	Acute pneumonia ..	20-3-12 13 Cambridge pl
28	F	82	Carter's wife ..	Senility ..	20-3-12 2 Woodland terr
30	F	50	Labourer's wife ..	Cirrhosis of liver ..	5-2-12 26 Roslyn street
31	F	72	Dee miller's dau ..	Senility ..	8-2-12 10 Woburn place
31	F	68	Shipsmith's wid ..	Senility ..	18-6-10 27 Arno road
April 1	F	79	Ship fireman's wf ..	Senility ..	30-1-12 34 Fox street
1	F	15	Baker's daughter ..	Phthisis ..	22-1-12 16 Bentinck place
2	F	47	Boilermaker's wid ..	Cirrhosis of liver ..	21-2-12 42 Crofton road
2	M	52	Dock labourer ..	Chronic bronchitis ..	29-5-11 77 Old Bidston rd
3	M	80	Civil engineer ..	Senility ..	7-7-07 75 Market street
6	M	5	Labourer's son ..	Broncho pneumonia ..	2-4-12 27 Thomas street
7	F	40	Labourer's wife ..	Phthisis ..	15-1-12 97 Egerton street

SUPPLEMENT TO TABLE V.—*Continued.*

Date.	Sex	Age	Occupation &c.	Cause of Death.	Date and Address of Deceased when admitted.
April 8	F	14	— daughter ..	General tuberculosis	6-4-12 15 Brook place
9	F	59	Labourer's wife..	Morbus cordis ..	22-3-12 40 Dover street
8	F	79	Labourer's widow	Senile decay ..	21-2-12 53 St. Anne street
10	F	61	Ship's cook's wid	Malig dis of uterus	25-3-12 42 Derby street
10	M	67	Iron driller ..	Hemip'egia ..	10-4-12 56 Patten street
10	M	64	R'lwy' brakesman	Carcinoma of jaw &c	6-1-12 22 Maple street
10	M	1m	— son ..	Marasmus ..	11-3-12 13 Sydney bldgs
12	F	72	Joiner's widow ..	Malig dis of uterus	20-11-11 35 Helming'h'm rd
13	M	47	Brewer's drayman	Aneurysm of aorta	30-3-12 7 Midland street
14	F	53	Bricklayer's wid	Morbus cordis ..	9-4-12 10 Camperdown st
15	M	36	Blacksmith ..	Pneumonia ..	15-4-12 22 Salisbury street
13	M	15	Dock lab'r'r's son	Pulmonary phthisis	24-3-12 37 Field street
14	M	60	Ship's cook ..	Scalds, accident ..	14-4-12 S.S. Locksley Hall
15	M	50	Rly C'se cellarm'n	Bronchitis ..	30-3-12 7 Midland s'reet
15	M	32	Dock labourer ..	Pneumonia ..	13-4-12 42 Church street
19	M	37	Labourer ..	Pneumonia ..	15-4-12 2 Knox street
22	M	58	Labourer ..	Heart disease ..	14-2-12 54 Town road
20	M	33	Fish porter ..	Pleurisy ..	15-4-12 6 Payson street
23	M	67	Iron driller ..	Bronchitis ..	30-8-10 48 Queen street
20	M	75	Shoemaker ..	Senility ..	2-6-10 214 Chester street
22	F	39	Labourer's wife..	Malig dis of uterus	22-2-12 Derby street
24	F	78	Labourer's widow	Rheum'toid arthritis	25-1-06 3 Hamilton lane
23	M	68	B lrmkr's h'l'd'r up	Bronchitis ..	17-4-11 56 Up. Brassey st
24	F	31	Labourer's wife..	Phthisis pulmonalis	5-3-12 367 Brook street
25	M	38	Ship's cook ..	Phthisis pulmonalis	11-1-12 270 Borough road
25	M	35	Boatswain ..	Enteric fever ..	6-4-12 27 Bridge street
29	M	82	Labourer ..	Senility ..	4-8-06 23 Old Bidston rd
27	F	11m	— daughter ..	Gastro-enteritis ..	5-2-12 43 Roslyn street
30	F	50	Labourer's widow	Acute bronchitis ..	22-4-12 7 Kellett's place
29	M	78	Labourer ..	Cere haemorrhage ..	10-8-07 19 Bentinck street
30	F	48	Shipsmith's wife	Mal dis of stomach	24-11-11 112 Brougham st
May 3	M	83	Wheelwright ..	Senility ..	23-1-07 72 Oliver street
5	F	3	Labourer's daugh	General tuberculosis	29-3-12 27 Thomas street
5	F	5m	Plater's h'lpi's dau	Marasmus ..	17-4-12 23 Crown street
5	M	8	Labourer's son ..	Pneumonia ..	12-3-12 16 Payson street
4	M	57	Grain porter ..	Valvular dis of heart	11-5-11 119 St. Anne st
7	M	62	Labourer ..	Valvular dis of heart	3-4-12 23 Greenway road
4	M	48	Labourer ..	Cere haemorrhage ..	4-5-12 Market street
6	M	68	Labourer ..	Epilepsy ..	29-6-09 8 Monk street
6	F	60	Cabinet m'ker's wf	Cere haemorrhage ..	12-11-11 2 Barnston street
9	F	23	Confectioner's dau	Phthisis pulmonalis	4-4-09 174a Old Ch'st'r rd
9	F	2	Labourer's daugh	Broncho-pneumonia	27-4-12 9 Kendal street
9	F	74	Charwoman ..	Acute bronchitis ..	7-5-12 179 Market street
11	F	49	Labourer's widow	Morbus cordis ..	16-4-08 3 Cavendish street
11	F	88	Paper maker's wid	Bronchitis ..	21-3-12 50 Dacre hill
18	M	25	Boiler scaler ..	Phthisis pulmonalis	14-5-12 2 Oliver place
18	F	73	Engine fitter's wid	Senility ..	6-6-08 23 Meadow street
19	F	71	Naval p'n's'n'r wid	Senility ..	23-12-02 118 Oliver street
19	M	65	General labourer	Chronic bronchitis	11-5-12 4 Waterloo place
23	M	36	Butcher ..	Phthisis pulmonalis	1-5-12 126 Park street

## SUPPLEMENT TO TABLE V.—Continued.

Date.	Sex	Age.	Occupation &c.	Cause of Death.	Date and Address of Deceased when admitted.
May 25	M	18	Wind'w cl'n'r's son	Phthisis pulmonalis	17 3-12 40 Wycliffe street
24	M	30	Fitter's labourer	Carcinoma of jaw..	7-3-12 28 G Queen's bldgs
26	F	87	Whitesmith's wid	Bronchitis ..	27-6-0; 124 Borough road
25	M	51	Dock labourer ..	Chronic bronchitis	4-5-12 101 Park street
25	M	45	Butcher ..	Malig dis of mouth	6-4-12 2 Bridge street
29	F	14	Labourer's daugh	Morbus cordis ..	27-3-12 4 E.r.l street
30	F	89	Tailor's widow ..	Senility ..	30-3-12 1 Kendal street
31	F	55	Labourer's wife..	Hemiplegia ..	7-5-12 5 Oak street
June 2	M	66	Cab driver ..	Hemiplegia ..	11-3-01 140 Chester street
3	M	43	Dock labourer ..	Hemiplegia ..	1-6-12 9 Bridge end terr
5	M	38	Draper's assistant	Erysipelas ..	31-5-12 51 Ivy street
7	F	19	Dock lab'r'r's dau	Phthisis ..	30-3-12 220 St. Anne st
7	M	36	Boilermaker ..	Mitral dis of heart	12-3-12 98 Church street
9	M	35	Labourer ..	Phthisis pulmonalis	4-1-08 64 Oliver street
11	F	77	Produce b'kr's wid	Senile decay ..	27-5-12 23 Devonshire rd
8	F	79	Labourer's widow	Senile decay ..	21-10-05 41 Oliver street
14	M	32	Ship's fireman ..	Phthisis pulmonalis	19-2-12 31 Berry street
14	F	74	Naval p'ns'n'r's wf	Senile decay ..	9-10-09 5 Cook street
17	M	72	Lead miner ..	Senility ..	14-6-12 310 Beckwith st
14	F	75	Labourer's widow	Senility ..	22-4-12 6 Myrtle court
16	F	19	Domestic servant	Enteric fever ..	16-3-12 66 Balls road
17	M	70	Engine fitter ..	Senility ..	6-8-08 10 Kent place
18	M	44	Ship's greaser ..	Pneumonia ..	17-6-12 S.S. City of London
17	F	38	Labourer's wife..	Phthisis pulmonalis	25-3-12 15 I Queen's bldgs
21	M	52	General labourer	Pneumonia ..	21-6-12 26 Edgar street
23	F	54	Labourer's wife..	Morbus cordis ..	4-6-12 167 Brook street
18	M	53	Dock labourer ..	Bronchitis ..	15-5-12 11 Bridge street
27	F	46	Ship's firem'n's wf	Chronic rheum'tism	17-6-12 60 Thomas street
26	M	76	General labourer	Senility ..	8-11-01 32 Grange road
27	F	50	Boiler clean'r's wd	Chronic bronchitis	12-4 12 32 Russell street
July 1	M	71	Old clothes dealer	Chronic bronchitis	3-5 12 1 Hughes bldgs
3	F	15	Ship's firem'n's d	Phthisis pulmonalis	7-5-12 6 Payson street
4	F	56	Engine fitter's wid	Strangulated hernia	2-7-12 5 Dacie street
5	F	28	Ship's carp. wife	Bulbar paralysis ..	1-7-12 2 Mill street
8	M	26	Labourer ..	Phthisis pulmonalis	29-2-12 1 Croxteth street
7	M	70	Army pensioner	Paraplegia ..	20-5-12 56 Mersey road
8	F	55	Labourer's widow	Morbus cordis ..	27-5-12 53 St. Anne street
5	F	65	Freight clerk's wf	Hemiplegia ..	4-7-12 15 Berry street
8	M	69	Bricklayer ..	Fatty degen of heart	26 6-12 24 I Queen's bldgs
12	F	71	Mast.marin'r's wd	Senility ..	12-6-12 59 Woodchurch rd
13	F	43	Painter's wife ..	Morbus cordis ..	26-6-12 2 Back Camden st
14	M	67	Master oil refiner	Senility ..	29-6-12 60 Park street
19	M	38	Crane driver ..	Phthisis pulmonalis	8-7-12 51 Old Chester rd
19	M	22	Ship's cook ..	Enteric fever ..	6-5-12 S.S. Locksley Hall
23	M	26	Labourer ..	Phthisis pulmonalis	24-6-12 24 Liversidge rd
22	M	6 m	Labourer's son ..	Gastro-ctteritis ..	2-7-12 6 Hamilton view
27	F	6 /	Upholsterer's wife	Cere haemorrhage ..	11-2-09 77 Camden street
26	M	70	Railway porter ..	Senility ..	1-6-11 2 Ivy street
Aug. 3	M	44	Plater's helper ..	Phthisis pulmonalis	29-8-11 3 Bedford place
7	M	22 m	Labourer's son ..	Pneumonia ..	23-7-12 7 Planet street

SUPPLEMENT TO TABLE V.—*Continued.*

Date	Sex	Age	Occupation &c.	Cause of Death.	Date and Address of Deceased when admitted
Jly 30	M	78	Joiner ..	Senility ..	2-6-93 17 Tunnel road
Aug. 4	M	86	Labourer ..	Senility ..	19-5-06 140 Chester street
3	F	67	Charwoman ..	Hemiplegia ..	16-8-11 Birkenhead
Jly 20	F	56	Labourer's widow	Diabetes mellitus ..	2-7-12 35 Flamank street
Aug. 9	M	37	Dock labourer ..	Heart disease ..	2-8-12 171 Bridge street
13	M	23	Engine driver ..	Phthisis pulmonalis	2-7-12 14 Flamank street
10	M	36	Carter ..	Perit'ritis, horse kick	7-8-12 36 Abbott street
11	F	13 m	Painter's daugh	Mirasmus ..	15-7-12 18 Russell road
14	F	51	Holder-up's wife	Cirrhosis of liver ..	3-6-12 6 Grace street
21	F	23 m	Labourer's daugh	Pneumonia ..	20-8-12 3 Millars place
23	F	15 m	Clerk's daughter	Laryngitis, &c ..	22-8-12 51 Grasville road
24	M	72	Carpenter ..	Chronic nephritis ..	5-7-12 222 Claughton rd
28	F	65	Mast.mariner's wf	Malig dis of bowel	12-6-06 11 Derby road
26	M	70	Watchmaker ..	Paraplegia ..	27-7-12 37 Chester street
28	M	53	Dock labourer ..	Carcinoma of liver	27-7-12 19 Field street
28	M	8 m	Coal trimm'r's son	Tuberc'l sis of gl'nds	15-8-12 25 Cleveland av
31	M	46	Dock labourer ..	Morbus cordis ..	29-8-12 181 Cleveland st
29	F	35	Dock labourer's wf	Phthisis pulmonalis	13-8-12 25 Adelphi street
Sept. 1	F	35	Vannian's wife ..	Puerp'r'l septicæmia	31-8-12 11 Gomer street
2	M	63	Ship rigger ..	Hemiplegia ..	2-5-12 3 Williams' cotts
2	F	48	Mate's wife ..	Cerebral tumour ..	3-6-12 22 Derby road
Aug 28	M	2 m	Dom servant's son	Gastro-enteritis ..	22-6-12 7 Queen's build'gs
Sept. 3	F	64	Insc. agent's wife	Cere haemorrhage ..	20-5-12 30 Argyle st south
3	F	38	Joiner's wife ..	Cerebral tumour ..	31-8-12 106 Church road
7	M	63	Dock labourer ..	Diabetes mellitus ..	8-11-11 112 St. Anne st
4	M	64	Biscuit factory lab	General paresis ..	19-8-12 1 Woburn place
6	M	61	Pens lighthse kpr	Hemiplegia ..	30-8-12 31 Woodsorrel rd
7	M	18	Shipyard labourer	Congestion of brain	4-9-12 13 Nelson street
12	M	48	Fisherman ..	Gen paral of insane	8-9-08 75 Russell road
14	M	78	Cab driver ..	Chronic nephritis ..	10-7-12 17 Gladstone st
13	M	39	Labourer ..	Acute gastritis ..	2-9-12 16 Cathcart street
14	F	71	Dec chemist's dau	Malig dis of uterus	16-7-12 45 Whetstone lane
14	M	51	Labourer ..	Carcinoma of mouth	12-1-12 12 Cambridge pl
17	M	33	Labourer ..	Valvular dis of heart	16-9-12 97 Oliver street
17	M	51	Traveller ..	Cirrhosis of liver ..	7-9-12 46 Woodchurch rd
18	F	28	Coachman's wife	Phthisis pulmonalis	22-6-12 32 Harrowby road
19	F	24	Dec lab'r'er's dau	Phthisis pulmonalis	21-9-11 39 Mill street
18	F	59	Dec lic vict daugh	Malig dis of uterus	13-9-12 31 Abbott street
20	F	24	Labourer's wife..	Phthisis pulmonalis	2-9-12 26 Cardigan street
21	M	68	Labourer ..	Carcinoma of tongue	11-9-12 6 Pym street
23	M	32	Able seaman ..	Acute nephritis ..	22-9-12 S.S. City of Birm'm
29	F	23	Labourer's wife..	Puerp'r'l septicæmi	29-9-12 31 Queensbury st
29	F	1 m	Stonemason's dau	Specific disease ..	26-9-12 7 Elgin street
Oct. 4	M	50	Labourer ..	Senility ..	10-8-08 54 Eldon street
3	F	23 m	Ship's firem'n's d	Mal dis of intestines	7-9-12 34 Old Chester rd
5	F	61	Traveller's widow	Tabes mesenterica ..	17-9-12 22 Payson street
7	F	25	Labourer's wife..	Hemiplegia ..	6-10-10 3 Davies street
8	F	25	Boilermaker's dau	Morbus cordis ..	21-9-12 22 Cambridge pl
8	M	45	General labourer	Dissemin't'd s'lrosis	25-8-10 18 Kingsley street
				Phthisis pulmonalis	30-9-12 4 Turner street

SUPPLEMENT TO TABLE V.—*Continued.*

Date.	Sex	Age	Occupation &c.	Cause of Death.	Date and Address of Deceased when admitted.
Oct.	M	47	Tailor ..	Malig disease of neck	8-12-11 139 Beckwith st
9	M	53	Dock labourer ..	Accident, crushes ..	7-10-12 23 Flamank street
13	M	64	Shipsmith ..	Senility ..	3-4-12 15 C Queen's bdgs
15	M	65	Rly engine driver ..	Malig dis of mouth ..	12-10-12 36 Carlisle street
15	M	73	Labourer ..	Senility ..	27-2-12 33 Leicester street
17	M	60	Bl'ksmith's strik'r	Mal dis of kidney &c ..	26-8-12 3 Gladstone street
14	M	1 m	Servant's son ..	Acute bronchitis ..	3-10-12 362 Laird street
16	M	61	Night watchman ..	Senility ..	11-10-10 6 Waterloo place
17	M	75	Iron driller ..	Senility ..	2-3-12 17 Myrtle street
14	F	2 d	— daughter ..	Prematurity ..	12-10-12 6 Pitt street
17	F	46	Labourer's wife..	Morbus cordis ..	17-10-12 13 Braid street
20	M	36	Labourer ..	Phthisis pulmonalis ..	7-9-12 17 Garnet street
22	M	29	Stonemason ..	Phthisis pulmonalis ..	12-10-12 38 Mona street
22	M	51	Labourer ..	Cere hemorrhage ..	13-10-12 36 Orchard road
24	M	68	Shipwright ..	Chronic bronchitis ..	22-10-12 29 Crown street
19	M	70	Joiner ..	Atheroma ..	6-1-12 92 Church street
20	M	35	Canvasser ..	Gastric ulcer ..	11-10-12 92 Church street
20	F	1 m	Carter's daughter ..	Marasmus ..	4-10-12 25 Thomas street
21	M	20 d	Coachi p'tner's son ..	Inanition ..	7-9-12 19 Gomer street
24	F	34	Carter's wife ..	Phthisis pulmonalis ..	11-5-12 25 Thomas street
25	F	56	Boilermaker's wf ..	Septicæmia ..	20-9-12 38 Meadow street
25	F	78	Shoeingsmiths wd ..	Senility ..	27-11-89 5 Nelson street
26	M	68	House painter ..	Morbus cordis ..	16-10-12 12 Moon street
28	M	50	General labourer ..	Cerebral softening ..	14-9-06 18 Apple grove
29	F	76	Seaman's widow ..	Morbus cordis ..	23-3-12 19 Willy street
31	M	29	Publisher's assist. ..	Phthisis pulmonalis ..	14-9-12 52 St. Anne street
30	F	3 d	Servant's daugh ..	Prematurity ..	27-10-12 8 Back St. Anne st
27	F	90	— widow ..	Senility ..	23-2-93 10 Ripon street
Nov.	F	63	Domestic servant ..	Pneumonia ..	31-10-12 2 Brookland road
2	M	81	Form. yacht capt. ..	Senility ..	22-2-12 108 Oliver street
5	M	14	Plateayer's son..	Spinal caries ..	24-10-10 49 Nelson road
5	M	18	Bricklayer's son..	Phthisis pulmonalis ..	8-3-10 13 Craven street
7	M	51	Dock labourer ..	Chronic bronchitis ..	30-10-12 6 Duncan street
8	M	30	Engine fitter's lab ..	Pneumonia ..	8-11-12 317 Borough road
8	F	71	Labourer's widow ..	Senility ..	23-2-12 18 Myrtle street
10	M	70	Boilermaker ..	Cystitis ..	21-11-10 75 Market street
13	F	25	Painter's wife ..	Enteric fever ..	10-10-12 15 Gomer street
15	F	8	Boil'r scaler's dau ..	Cerebral meningitis ..	8-11-12 21 Cleveland st
10	F	73	Labourer's widow ..	Morbus ccrdis ..	2-11-06 35 White street
12	M	28	Ship's fireman ..	Mitral dis of heart ..	7-11-12 124 Price street
15	M	26	Street singer ..	Hemiplegia ..	17-10-06 Birkenhead
16	F	68	Labourer's wife..	Morbus cordis ..	11-9-12 17 Taylor street
21	F	22	Labourer's daugh ..	Chronic nephritis..	23-9-12 229 Oliver street
21	M	40	Mast'r hairdresser ..	Cerebritis ..	30-10-12 22 Grange street
23	F	5	Carter's daughter ..	Broncho-pneumonia ..	2-10-12 40 Queen street
23	M	61	Storekeeper ..	Hemiplegia ..	25-5-11 20 Chapel street
23	M	69	General labourer ..	Chronic bronchitis ..	4-6-12 22 St. Anne street
17	F	51	Painter's wife ..	Burns, accidental ..	7-11-12 2 Woburn place
22	F	2	Marine firem'n's d ..	Measles ..	11-5-11 25 Planet street
22	F	5 hrs	Laundress's dau ..	Prematurity ..	22-11-12 3 Rhodens place

## SUPPLEMENT TO TABLE V.—Continued.

Date.	Sex	Age	Occupation &c.	Cause of Death.	Date and Address of Deceased when admitted.
Nov 22	M	56	Dock labourer ..	Pneumonia ..	18.11.12 100 Church street
29	F	58	Labourer's widow	Morbus cordis ..	28.11.12 57 St. Anne street
28	F	50	Labourer's widow	Cere haemorrhage ..	21.11.12 23 Monk street
28	F	63	Labourer's widow	Hemiplegia ..	7.3.09 4 Hughes bldgs
Dec. 1	M	62	Labourer ..	Chronic rheumatism	5.11.12 77 Wood street
1	M	46	Labourer ..	Mitral dis of heart	14.11.12 92 Church street
3	M	11	Hairdresser's son	Phthisis pulmonalis	14.10.12 12 Bedford place
Nov 30	F	33	Taxi driver's wife	Acute phthisis ..	29.11.12 27 Thomas street
Dec. 5	M	62	General labourer	Chronic bronchitis ..	19.10.12 92 Church street
8	M	28	Carter ..	Phthisis pulmonalis	6.11.12 115 St. Anne st
8	M	29	Carter ..	Pneumonia ..	6.12.12 40 Queen street
9	M	88	Sup'rann. postm'n	Senile decay ..	17.11.12 151 W'dchurch rd
10	F	34	Carter's wife ..	Specific disease ..	23.10.12 2 Clayton street
10	F	76	Tinsmith's widow	Senility ..	6.10.12 35 Bold street
11	M	59	Labourer ..	Chronic bronchitis	9.12.12 68 St. Anne street
12	F	60	Seaman's widow	Hemiplegia ..	30.11.12 49 Victoria road
14	M	20 m	Labourer's son ..	Measles ..	21.9.12 22 Cambridge pl
10	M	88	Form. ferry porter	Senility ..	25.6.06 22 White street
14	F	51	Engine fitter's wf	Hemiplegia ..	14.9.09 17 Neston street
17	F	74	Cab prop. widow	Senile decay ..	26.1.12 78 Borough road
18	F	63	Fireman's widow	Phthisis ..	18.9.12 5 Willaston place
20	M	48	Painter ..	Pneumonia ..	6.12.12 40 Harrowby road
17	M	63	Inn keeper ..	Cardiac disease ..	19.3.12 6 Walton street
21	F	7 m	Labourer's daugh	Pertussis ..	12.12.12 25 Mill street
22	F	43	Army p'ns'n'r'swd	Care. of mamma ..	22.4.12 40 Queen street
21	M	3	Labourer's son ..	Broncho-pneumonia	20.11.12 214 Chester street
21	M	49	Storekeeper ..	Bronchiectasis ..	19.12.12 S.S. Mahranda
24	M	44	Watchman ..	Gen paral of insane	9.4.12 49 Wood street
26	M	55	Labcurer ..	Cerebral softening	18.4.11 18 Leicester street
25	M	57	Labourer ..	Pneumonia ..	23.12.12 37 Mill street
26	F	73	Carpenter's widow	Senility ..	7.10.01 Birkenhead
26	M	72	Labourer ..	Bronchitis ..	23.12.12 93 Oliver street
31	M	42	Labourer ..	Gen paral of insane	5.9.11 181 St. Anne st

